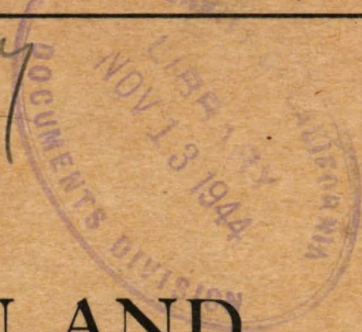


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WAR DEPARTMENT TECHNICAL MANUAL

U.S. Dept. of Army



PREPARATION AND ADMINISTRATION OF THE ARMY SUPPLY PROGRAM

WAR DEPARTMENT • 25 JANUARY 1944

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TM 38-210

PREPARATION AND
ADMINISTRATION OF
THE ARMY
SUPPLY PROGRAM



WAR DEPARTMENT • 25 JANUARY 1944

Washington, 1944

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INTRODUCTION

The starting point of the system of supply for the Army is the determination of the total quantities of equipment and supplies that will be needed and the portion of this total which must be produced. The responsibility for ascertaining such information is being discharged by the Director, Requirements Division, Army Service Forces, together with the Director, International Division, Army Service Forces, and the Commanding General, Army Air Forces, through the publication of the Army Supply Program. The quantities stated in the program constitute procurement objectives for the technical services and production goals for American industry. They are a basis for ascertaining the materials, facilities, power, and labor needed to provide adequate matériel for the Army's portion of the national war production program.

The Army Supply Program presents the estimated required production of matériel to be procured by the United States Army during specified calendar years for the United States Forces, both Army and Navy, and the other United Nations. The primary purpose of the program is to present *required production* for each of these years which may be the same as or less than total requirements.

This manual has been prepared to state the basic principles and procedures involved in the computation and administration of the Army Supply Program and standard instructions applicable to each revision. Detailed instructions for each recomputation of the various sections of the program which cannot be standardized will appear in directives issued by appropriate agencies. If any conflict exists between *subsequent recomputation directives and procedures stated in this manual*, the directives will control. The manual is arranged in books which correspond to sections of the program.

The program is divided into four sections, as follows:

Section I, Equipment, Ground. Section I pertains to items of ground equipment and supplies. It is divided into parts A and B.

Part A sets forth the estimated required production for tactical equipment and ammunition, except those articles of exclusive interest to the Army Air Forces. In this section are included major items of combat equipment prescribed by Tables of Organization and Equipment or Tables of Basic Allowances and Tables of Allowances.

Part B states the estimated required production of miscellaneous equipment and expendable supplies, except those procured by the Army Air Forces. It also includes requirements for construction directed by the commanders in theaters of operations.

Section II, Equipment, Air. Section II relates to equipment of exclusive interest to air operations and to miscellaneous and expendable supplies procured by the Army Air Forces. It is divided into parts A, B, and C.

Part A sets forth the estimated required production for equipment, exclusive of aircraft and aircraft initial and spare components in parts, used by the Army Air Forces or the Army Ground Forces for which the Army Air Forces has fund and requirements responsibility, including the requirements of the Navy Department and International Aid for such equipment.

Part B states the estimated required production for miscellaneous and expendable supplies purchased by the Army Air Forces.

Part C states the estimated required production for items of exclusive interest to air operations that are purchased by the Army Service Forces.

Section III, Miscellaneous Supplies, International Aid. This section sets forth all miscellaneous International Aid requirements which have been duly authorized for procurement and the requirements for those items for International Aid which have been approved for planning purposes on a program basis and are not included in other sections of the Army Supply Program.

Section IV, Construction. Section IV is a compilation of all incompletd War Department construction and facilities except such projects as are the responsibility of the theater commanders, both proposed and authorized, which are necessary to carry out the present and future tactical and supply plan of the United States Army. It is divided into parts A, B, C, and D.

Part A consists of proposed projects, that is, those for which funds have been appropriated but for which no di-

rectives have been issued, and other currently contemplated projects which will be included in later project estimates.

Part B represents projects for which directives to initiate construction have been issued to the appropriate construction agencies.

Part C states the cost of manufacturing machinery and equipment for the projects included in part B.

Part D presents the estimated cost of maintenance, repairs, and operating supplies for all posts, camps, and stations as prescribed by AR 100-80.

Recommendations for changes to books I, III, or IV should be submitted in writing to the Director, Requirements Division, Headquarters, Army Service Forces, Washington 25, D. C. Recommendations for changes to book II should be similarly submitted to the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, Attention: Control Branch Headquarters, Army Air Forces, Washington 25, D. C.

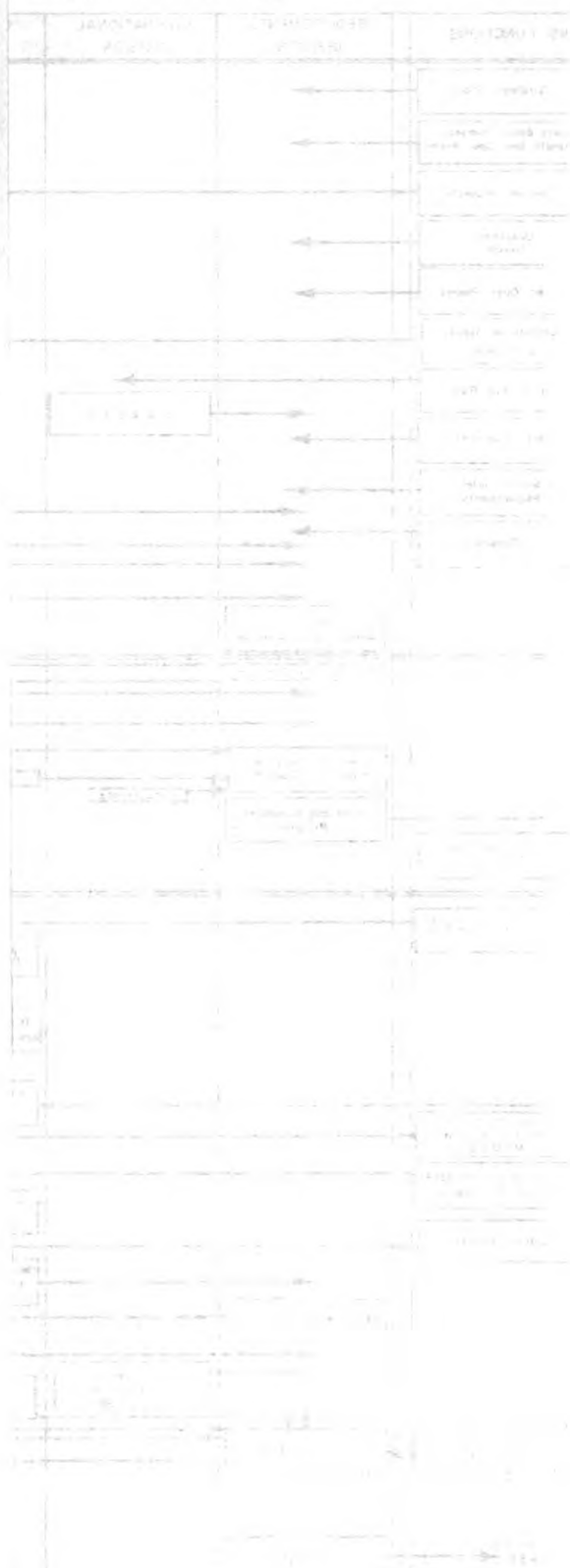
Method of Numbering

The Army Supply Program Manual is divided into four books with subordinate chapters and paragraphs. Each book corresponds to a section of the program. Paragraphs are identified by numerals of three digits and subparagraphs are indicated by numerals of three digits, a decimal point and two more digits. For example, subparagraph 131.11 indicates book I, chapter 3, paragraph 1, subparagraph 11.

BOOK I

**THE ARMY SUPPLY
PROGRAM—SECTION I,
EQUIPMENT, GROUND**

100.00



BOOK I

THE ARMY SUPPLY PROGRAM—SECTION I, EQUIPMENT, GROUND

Chapter 1

General

110.00 DEFINITIONS. The following definitions are applicable to section I of the Army Supply Program.

110.01 A **requirement** is the quantity of a particular item, or designated group of items, needed for a specified military force during a stated period. It generally includes the initial issue and an allowance for replacement or consumption, distribution, stock piles where authorized, shipping losses, and severance where applicable.

110.02 **Required production** is the quantity of an item or designated group of items, which will have to be manufactured or produced in a specified period so that production plus stock on hand at the beginning of the period will satisfy the requirement for that item during that time.

110.03 **Initial issue** is the amount of an item authorized to be issued by Tables of Basic Allowances, Tables of Organization and Equipment, or Tables of Allowances to provide original equipment for military units, plus exceptional issues of equipment and special project allowances.

a. Exceptional issues of equipment are issues approved by competent authority which are at variance with allowances to tactical units authorized in allowance tables or which provide equipment not shown in such tables.

b. Special project allowances are allotments of equipment in addition to those prescribed in Tables of Basic Allowances or Tables of Organization and Equipment which are authorized by the War Department for use in a designated locality,

for example, harbor defense equipment for the Hawaiian Department.

110.04 Replacement is the quantity of nonexpendable equipment required during a stated period to replace items which are totally worn out, lost, or destroyed except as a result of ship sinkings, and separation of personnel from the service. It assumes total loss of an item. Loss may result from fair wear and tear beyond repair, capture, abandonment, or total destruction. Replacement is divided into two types, as follows:

a. Zone of the interior replacement, which is the quantity of total replacement necessitated by wearing out beyond repair or complete destruction from accident or any other cause occurring within the zone of the interior.

b. Theater of operations replacement, which is the quantity of total replacement made necessary by wear and tear incident to combat operations, including abandonment, destruction by enemy action, or capture. Because of more strenuous usage to which equipment is subjected in the theater of operations and the greater risk of destruction existing in actual combat, theater of operations replacement requirements are generally higher than those prescribed for the zone of the interior.

110.05 Consumption is the quantity of expendable supplies, except ammunition, needed to replace such items which are used or destroyed except as a result of ship sinkings.

110.06 Distribution is the average quantity of an item of equipment required at any given time to insure a constant flow of supplies from the point of acceptance to the place of issue (both inclusive). Distribution is made up of two primary elements:

In-transit distribution.

Theater and zone of interior reserves.

a. In-transit distribution is the average amount en route during the weighted average period expressed in months required physically to move a given item of equipment from the point of acceptance to the place of issue in the zone of the interior (both inclusive) and from the point of acceptance (inclusive) to the port of debarkation (exclusive) for theaters of operation. The amount required for in-transit

distribution in any given year is expressed in number of months replacement. (See par. 130.05 a.)

b. *Theater and zone of the interior reserves* consist of supply levels authorized to be maintained in theaters of operations and in the zone of the interior. There are three types of supply levels, as follows:

(1) The *maximum level of supply* is the greatest quantity of an item authorized to be on hand and due in at any one time. For oversea bases this will mean the level of supply plus the operating level of supply. For ammunition, it will include the total quantity on hand in a particular theater, including quantities in the hands of troops.

(2) The *operating level* is the amount of supplies usually necessary to maintain an oversea base until such time as the next shipment is received. This level will be determined by the frequency of shipments and the time required for supplies to reach their destination.

(3) The *level of supply* is the minimum amount of supplies to be held at a given supply point, base, defense command, department, theater of operation, or similar activity measured in days of supply. This amount should be drawn against only in case of an emergency.

110.07 Day of supply is the estimated average expenditure of various items of supply per day expressed in quantities of specific items, in rounds per weapon, or in pounds per man per day.

110.08 Severance is an allowance to provide for issues of individual clothing and equipment to enlisted personnel separated from the service due to any cause during a stated period.

110.09 Unit Cost is the cost of a unit or units of an item, generally including spare parts, local inspection costs, and transportation to first destination.

110.10 Stock on hand is the amount of a particular item which is on hand as of a specified date. The basic directive issued by the Director, Requirements Division to the chiefs of the technical services will state the elements, such as stock in depots or stock with troops, to be included in the composite stock on hand figure used in the computation.

110.11 Critical items are those for which a long time is required to initiate or to increase production or whose

production is difficult because of shortages in raw materials or plant facilities. Critical items as a rule have no counterpart in civilian commercial usage.

110.12 Essential items are those for which a long time is not required to initiate or increase production and which present no substantial procurement difficulties. Essential items in many instances are similar to items in common commercial usage, for example, trucks.

110.13 A stock pile is a reserve of equipment or supplies, generally in addition to regular supply levels (par. 110.05b). The amount of such stock piles is determined by anticipated operational demands and not by a regular established basis of issue. Included primarily are class IV supplies for which there is no established basis of issue. In addition, stock piles provide reserves to cover anticipated exceptional issues of items included in Tables of Organization and Equipment and Tables of Basic Allowances. Some engineer items have no regular supply levels and the amount of the stock pile constitutes the reserve provided for such items. The reserve represented by the stock pile is included as an element of requirements so that procurement can be initiated sufficiently in advance of actual operations to enable services to have these supplies available when operations are begun.

Chapter 2

Sources of Basic Data

120.00 U. S. ARMY REQUIREMENTS

120.01 Strategic Plans. U. S. Army requirements are based upon the strategic plans of the Combined Chiefs of Staff, the Joint Chiefs of Staff, and the War Department General Staff. These plans are converted into equipment requirements through the following media which are obtained from the sources indicated:

a. Troop basis. The troop basis is the compilation of the numbers and types of units which it is contemplated will be activated by the U. S. Army during the years to be covered by the Army Supply Program. It shows total enlisted and officer strength, composition of the force, and anticipated

annual activations. In addition there are indicated estimates of the numbers of troops requiring special types of clothing and equipment by reason of the geographical areas in which they will operate, such as arctic and tropical zones, or by reason of the tactical purposes for which they will be used, for example, amphibious, parachute, and mountain operations. A new troop basis is compiled for each semiannual revision of section I. It is prepared by Operations Division, War Department General Staff, and forwarded by the Director, Requirements Division, to the services as an inclosure to the directive for each recomputation of section I.

b. Oversea strengths. The numbers of troops which it is estimated shipping facilities can transport and sustain overseas at the end of each of the years covered by the program are secured from the Operations Division, War Department General Staff.

c. Task force plans. Within the limits of military security, plans for specific major operations are furnished the Director, Requirements Division, Army Service Forces, by the Operations Division, War Department General Staff and the Director of Plans and Operations, Army Service Forces, so that provision can be made in the program for the creation and replenishment of operational stock piles. Frequently, exceptional issues are authorized for task forces and are reflected in the program through the manner hereafter prescribed. (See par. 130.04e (3).)

120.02 Other Data. In addition to strategic data, the following sources of information are involved in the preparation of section I:

a. Tables of Distribution. The allotments of personnel, grades and ratings for training and school units not formed as tactical organizations, are prescribed in Tables of Distribution.

b. Allowance tables. Allowance tables prescribe the authorized allowances of equipment for tactical and training units and installations of the U. S. Army. These tables consist of the following:

(1) Tables of Organization and Equipment which provide allowances of organizational equipment for tactical units and prescribe the organic structure of such units.

(2) Tables of Basic Allowances which state allowances for tactical units for which Tables of Organization and Equipment have not been completed.

(3) Tables of Allowances which contain bases of issue prescribed for nontactical units and of issues only to posts, camps, and stations.

(4) The Table of Clothing and Individual Equipment which contains clothing and individual equipment allowances for individuals of all arms and services.

(5) Special Lists of Equipment which state allowances for special units to which no approved Table of Equipment is applicable or when the equipment or quantities authorized are not contained in the approved Table of Organization and Equipment.

(6) Supply circulars and catalogs of the technical services which pertain to bases of issue for spare parts, component parts, accessories, and many expendable supplies.

c. Exceptional issues. Exceptional issues originate in requests received from theater commanders as well as in directives issued by Operations Division of the War Department General Staff and the Director of Supply, Army Service Forces. Frequently such issues appear in movement orders prescribing allowances at variance with Tables of Basic Allowances for units ordered overseas.

d. Special project allowances. Allowances for special projects are prescribed by the War Department General Staff.

e. Replacement factors. Replacement factors are prepared by the chiefs of the technical services responsible for the procurement of the items involved and are approved by the Director, Requirements Division, Army Service Forces.

f. Supply Levels.

(1) *Theaters of operation.* The operating and reserve level of supply is set by the port commander responsible for the supply of oversea bases in collaboration with the oversea commander. The reserve level of supply is approved by Operations Division, War Department General Staff, based on recommendations of the theater commander and the Director of Plans and Operations, Army Service Forces.

(2) *Zone of the interior.* Levels of supply for the zone of the interior are prepared by the chiefs of the technical services and approved by the Director of Supply, Army Service Forces.

120.03 Requirements for Miscellaneous Agencies.

a. Military Intelligence Division. Requirements for Military Intelligence Division, War Department General Staff,

are secured by the Director, Requirements Division, Army Service Forces, from that agency and transmitted to the technical services concerned.

b. Office of Strategic Services. Requirements for the Office of Strategic Services are prepared by that agency, stated in a catalog and approved by the Supply Division, G-4, of the War Department General Staff. The requirements for standard items appearing in the approved catalog are transmitted by the Director, Requirements Division, to the chiefs of the technical services for inclusion in the Army Supply Program. Requisitions for standard items not included in the catalog which are filled at posts, camps, and stations will be considered exceptional issues by the chiefs of the technical services and incorporated in the Army Supply Program in accordance with paragraph 156.01.

121.00 U. S. NAVY REQUIREMENTS. Requirements for items to be procured by the U. S. Army for the U. S. Navy are prepared by the various Navy Bureaus and assembled by the Office of Procurement and Material of the Navy Department. Such requirements are secured by the Director, Requirements Division, Army Service Forces, from that agency and transmitted to the technical services concerned.

122.00 INTERNATIONAL AID REQUIREMENTS. Data on International Aid requirements are secured by the Director, International Division, Army Service Forces, from the plans of the Combined Chiefs of Staff, representatives of Allied governments, protocols entered into by the U. S. Government, and plans of the Combined Resources and Production Board relative to the distribution of future production by the United States and United Kingdom. Such requirements for items of equipment included in section I are secured by the Director, Requirements Division, Army Service Forces, from the Director, International Division, and transmitted to the technical services concerned.

Chapter 3

Preparation of Part A, Section I, Equipment, Ground

130.00 METHODS OF COMPUTATION.

130.01 Purpose. The purpose of paragraph 130.00 and related subparagraphs is to state the general procedure in-

volved in the computation of the principal elements of required production appearing in part A, section I, of the Army Supply Program. The procedures actually used during each computation will necessarily vary in accordance with instructions contained in the directive issued at the time of the revisions and with the problems peculiar to each service.

130.02 General Theory of Computation. The basic purpose of section I, part A, is to state required production for specified periods. The program shows a total for each period and the portions thereof needed by the U. S. Army, Navy, and International Aid. Required production for the last two agencies is not computed by the technical services but furnished to them (pars. 121.00 and 122.00). Required production for U. S. Army is computed by the services and consists of U. S. Army requirements less stock on hand. (See par. 130.07.)

130.03 Determination of Stock on Hand. The method for determining stocks on hand will be prescribed in the basic directive. However, any method used must take maximum advantage of all available inventory and stock control data.

130.04 Computation of Initial Issue for U. S. Army.

a. Tables of Organization and Equipment. (1) Under any of the foregoing methods, Tables of Organization and Equipment and such additional charts derived from approved allowance tables as are necessary will be utilized in the computation of initial issue. These charts will state the initial allowances of equipment to be supplied by the service involved to each tactical organization in the Army.

(2) The Director, Requirements Division, Army Service Forces, will forward the troop basis for each recomputation to the chiefs of the technical services. When received, this troop basis will be reviewed and all organizations shown thereon will be identified with the list of organizations appearing in Tables of Organization and Equipment or similar charts where Tables of Organization and Equipment are not available. The equivalent of such charts will be prepared for units in the troop basis not covered by existing charts.

b. Manual method of computation. Under the manual method of computation, the initial allowances of each item of equipment for each organization, as shown in the equip-

ment section of Tables of Organization and Equipment or similar charts, are multiplied by the number of times that organization appears in the troop basis. Initial allowances for schools and replacement training centers are obtained by multiplying issues authorized under Tables of Allowances by the number of such units in the troop basis. The totals for each item are then accumulated. This is accomplished by hand or by hand-operated computing machines. A suggested work sheet for the purpose of illustrating the method involved in this phase of the computation is attached as Form 1. This form must be adjusted for each computation in order to adapt it to the period to be covered by the program and specific instructions pertaining to initial issue stated in the directive issued by the Director, Requirements Division.

c. Machine records method of computation. Under this method, the multiplication and cumulation necessary to determine allowances under Tables of Organization and Equipment or Tables of Basic Allowances and Tables of Allowances for units shown in the troop basis are accomplished by the use of punch card tabulating machines. The use of this method is particularly advantageous for a service which computes requirements for a large number of items.

d. Combination method. In several of the technical services, the individual items procured by the services are grouped under sets. Although the components of such sets may run into the thousands, the number of sets involved will be relatively small. In such circumstances, it is quicker to compute the Tables of Organization and Equipment or Tables of Basic Allowance requirements for sets by the manual method and convert such requirements into terms of individual items by the machine records method.

e. Adjustments to computed Table of Organization and Equipment or Table of Basic Allowance initial requirements. The initial requirements for an item computed by any one of the foregoing methods and representing authorized allowances under Tables of Organization and Equipment or Tables of Basic Allowances and Tables of Allowances may, within the discretion of the service concerned or by virtue of specific instructions contained in the directive, be in need of adjustment. These adjustments may be

attributable to one or more of the following considerations or to others prescribed in the directive:

(1) *Experience factors.* Frequently experience factors are necessary to interpret properly allowances established under allowance tables. Such factors will be used for items, the issue of which is restricted in allowance tables by such clauses as—

(a) When authorized by a commanding officer.

(b) When authorized by a commanding general.

(c) When authorized by a theater of operations commander.

(d) Training allowances.

(e) Not to be taken into combat zones.

(f) Theater of operations only.

(2) *Existence of substitute items.* Prescribed allowances of supplies and equipment computed from appropriate allowance or equipment tables may authorize items for which supply is limited because of production problems. Frequently newly standardized items cannot be manufactured in sufficient quantities to meet authorized allowances. In either case, substitute items of issue are employed to fill requisitions. This fact will affect the net requirements of such items prescribed as appropriate for substitution as well as those for which substitutions have been made. The requirements section within each service will make necessary adjustments in computed net requirements to reflect the substitution of items. Items classified as substitute standard may be procured to meet time objectives established in the program. See AR 850-25 for classification of substitute items.

(3) *Exceptional issues or special project allowances.* Dependent upon the theory of computation involved in the basic directive and the specific instructions contained therein, exceptional issues and special project allowances may have to be added to computed Tables of Basic Allowances or Tables of Organization and Equipment initial requirements. The directive will state whether these types of requirements will be included and if so, whether they are to be included prior to or subsequent to the computation of replacement and distribution.

130.05 Computation of Replacement and Distribution Allowances for the U. S. Army.

a. *Basic theory.* Replacement and distribution allowances

are provided by applying a replacement factor to the computed initial issue of the entire force for the period involved. Separate factors are provided for the zone of the interior and theaters of operation. Since these factors are expressed in terms of monthly percentages of initial issue, the directive issued by the Director, Requirements Division, Army Service Forces, must prescribe the number of months replacement to be applied to the computed initial issue for each of the periods involved. The directive will also indicate the allowances provided by the prescribed number of months. Generally, these will be—

(1) Theater of operation replacement for the average strength of forces in combat areas during the period specified.

(2) Zone of the interior replacement for the average strength of forces remaining in the continental United States and in noncombat areas overseas during the same period.

(3) Oversea reserve levels for troops outside the continental United States.

(4) Reserves within the continental limits of the United States to provide stocks in posts, camps, and stations, and in depots for troops in the United States, and stocks in ports and filler depots for troops overseas.

(5) Amounts estimated to be in transit for troop strengths at the end of each of the periods involved.

(6) Estimated ship losses.

b. Method of computation. The procedure involved in determining allowances for replacement and distribution is to multiply the initial issue of the entire force for the period involved by the replacement factors and the number of months replacement prescribed in the directive. This may be accomplished by machine tabulating methods or by manual computations. A suggested, self-explanatory form for the latter method is attached hereto as Form 2. This form will have to be modified to meet the specific instructions contained in each basic directive.

130.06 Computation of Ammunition Requirements for the U. S. Army. Although ammunition is an expendable item, the required production therefor is shown in part A instead of in part B with other expendable supplies. Requirements are determined by multiplying the initial issue of weapons using each type of ammunition by the number of days of

supply prescribed in the basic directive. The number of days prescribed will provide ammunition for oversea operations. Training ammunition for use in the continental United States will be included on the basis of AR 775-10 and the adjustments authorized by the Director, Requirements Division, Army Service Forces, based upon the prior experience of the service concerned. A suggested work sheet is attached hereto as Form 3. It must be adapted to the periods covered by the number of weapons using various types of ammunition.

130.07 Computation of Required Production for the U. S. Army. Required production for the U. S. Army is determined by subtracting stock on hand from the sum of computed initial requirements based on allowance tables, allowances for replacement and distribution, requirements authorized for miscellaneous agencies, exceptional issues, stock piles and special project allowances when authorized by the directive, and attrition and training allowances where applicable. The majority of these elements and the principles involved in the computation are illustrated on Form 2.

130.08 Computation of Total Required Production. Generally, required production for U. S. Army computed in the manner prescribed in paragraph 130.07 plus required production for the U. S. Navy and International Aid, transmitted to the technical services by the Director, Requirements Division, will constitute total required production for the period involved

a. Adjustments to reflect oversea procurement. See paragraph 131.13

b. Summary adjustment of part A, section I, to productive capacity. Total required production for each specified period may be subjected to adjustments, as prescribed by the directive, to bring the total required production of an item for any specified period within the limits of the productive capacity of the Nation for that item. After the various portions of section I have been computed by the chiefs of the technical services, the work sheets will be forwarded to the Director, Requirements Division. The Director, Requirements Division, will transmit these work sheets to the Director, Production Division, for review from the standpoint of production capabilities. The Director, Production Divi-

sion, will conduct review conferences with representatives of the Director, Requirements Division, and of the technical services concerned. At these conferences, it will be determined what requirements exceed production capabilities, whether production limitations are advisable from the operational viewpoint and if not, what steps, such as expansion of facilities or otherwise, can be taken to raise a production goal for the year to the minimum level necessary to meet operational requirements. After the work sheets have been adjusted and approved from the production viewpoint by the Director, Production Division, they will be returned to the Director, Requirements Division, for his approval. When finally approved, the work sheets will be transmitted to the chiefs of the technical services to be transcribed to forms for publication in accordance with paragraph 131.16.

131.00 SPECIFIC INSTRUCTIONS

131.01 Responsibility. The Director, Requirements Division, Army Service Forces, is responsible for the formulation of a basic directive containing instructions for the preparation of part A, section I. The chiefs of the technical services are responsible for the computation of their respective portions of part A, section I, in accordance with the basic directive.

131.02 Purpose. It is the purpose of paragraph 131.00 and related subparagraphs to state the recurring standard instructions which are applicable to each recomputation of *part A, section I*, of the Army Supply Program. These instructions relate only to standard phases of the operations involved in each revision of part A, section I, and will be supplemented by the basic directive of the Director, Requirements Division, Army Service Forces. The basic directive will specify the period covered by the recomputation, the manner in which initial issue, replacement, and distribution allowances are to be provided, and similar matters which are peculiar to each revision. Except as modified by the directive issued by the Director, Requirements Division, at the time of the recomputation, the following instructions will be observed in preparing each revision of Part A, section I.

131.03 Items to be Included. Part A will include required production for substantially all items of ammunition

and tactical equipment prescribed by Tables of Organization and Equipment or Tables of Basic Allowances and Tables of Allowances, except those items which are of exclusive interest to the Army Air Forces.

131.04 Nomenclature. The nomenclature of articles will conform with the standard nomenclature, where practicable, as listed in Tables of Organization and Equipment, and Standard Nomenclature Lists. When necessary to further identify the item, words may be added within parentheses immediately following the standard nomenclature. For grouping of items, the nomenclature will be shortened from the standard nomenclature by dropping the specific model number or other distinguishing characteristics but retaining as much of the standard nomenclature as conforms with all the items included in the group. Where the item is non-standard, it will be so designated by placing the word "non-standard" inclosed in parentheses immediately below the name of the item.

131.05 Interservice Procurement Items. Each technical service will state the required production of an item for which it has fund and requirements responsibility even though the item is actually purchased by another technical service. The name of the service having purchase responsibility for each of such items will be indicated by a note in the remarks column opposite the item as follows: "Purchased by _____."

131.06 Critical and Essential Items. Critical and essential items will be those so designated in the latest revision of part A, section I, of the Army Supply Program and any subsequent changes in classification approved by the Director, Requirements Division, Headquarters, Army Service Forces.

131.07 Statement of Requirements for Items which are Component Parts of Sets. Certain complete end items are component parts of sets and in addition are issued separately. Except motor vehicles, separate requirements of these items will not include requirements for them as component parts of sets. For instructions applicable to motor vehicles, see paragraph 131.11.

131.08 Transfer of Items. In general, it is desired that the required production for any one item by any one service

be stated in only one place in that part of the program pertaining to that service. Transfer of items from part A to part B or vice versa will be made only upon the approval of the Director, Requirements Division, Army Service Forces.

131.09 Unit of Measure. The unit used for quantitative estimates should be that commonly used commercially, that is, each, pair, pounds, tons, square feet, gallons, etc. In general, the unit should be such that quantities shown in the program may be expressed by not more than nine digits and that the unit cost will not be less than whole cents. Where the unit of measure is "each", quantities may be rounded to the nearest hundred, where considered desirable.

131.10 Unit Cost. Unit cost will represent the latest and best information available thereon. In general, it will be based on the latest contract price and will include customary allowances for the first year's spare parts, local inspection, and transportation from the point of manufacture to first destination. Where the value of the first year's spare parts are included in the unit cost of an item, the letter "s" will be placed to the right of the unit cost entry.

131.11 Motor Vehicles.

a. Motor vehicles referred to herein include—

- (1) Passenger cars.
- (2) Ambulances.
- (3) Trucks.
- (4) Truck-tractors.
- (5) Trailers.
- (6) Semitrailers.
- (7) Buses.
- (8) Motorcycles.
- (9) Bicycles.
- (10) Tools.
- (11) Spare parts.
- (12) Crawler tractors—high-speed prime movers.

Warehouse vehicles, materials handling equipment (except full size trucks, tractors, and trailers) small carts, reels, etc., are excluded.

b. The chief of each technical service will compute the required production of each vehicle for which he has fund and requirements responsibilities.

c. (1) The chief of each of the services, other than Ordnance, will forward to the Chief of Ordnance, War Plans

and Requirements Branch, not later than 30 days after issuance of the basic directive, work sheet forms completed in accordance with the instructional worksheet issued with the directive, stating thereon his requirements for motor vehicles except those for administrative purposes. These requirements will include and will be grouped to show:

(a) Vehicles to be purchased by the technical services concerned.

(b) Vehicles to be purchased by the Chief of Ordnance. These are the so-called "hidden vehicles" which are not listed as separate items in Tables of Organization and Equipment or other allowance tables but which are end items or components of sets, for example, radar sets, engineer ponton sets, etc.

(2) Subsequently approved changes in requirements for major items of which motor vehicles are components will be reported promptly to the Chief of Ordnance, War Plans and Requirements Branch, so that corresponding changes may be made in the summary of motor vehicle requirements.

(3) On the final forms for publication, end items containing motor vehicles and motor vehicles whose requirements are not computed by the Chief of Ordnance, but which are purchased by him, will be indicated by the letter "V" in the "Remarks" column opposite the item, and the following footnote will be placed at the bottom of the page:

"V" — "Motor vehicles, part of this item is included in the Motor Transport Summary of the Ordnance subsection."

d. The Chief of Ordnance will—

(1) Compute the requirements for administrative vehicles, including those for use in the plants, arsenals, and similar establishments, for issue in the continental United States.

(2) Consolidate requirements for motor vehicles computed by other services with his computed requirements.

(3) Prepare a summary of motor vehicle requirements to be purchased by the Chief of Ordnance. In this summary items will be listed only by type (ambulance, truck, etc.), weight capacity ($\frac{1}{4}$ -ton, $2\frac{1}{2}$ -ton, etc.), number of wheels and drive (4 x 2, 4 x 4, etc.), body types (cargo, chassis, etc.) and principal auxiliary equipment (w/w, or w/ow, etc.).

(a) Vehicles to be equipped with antiaircraft machine gun mounts will be indicated in the remarks column by the following note:

“——percent to be equipped with AA MG mounts.”

(b) Each page of the Motor Transport Summary will carry the following footnote:

“For detailed allocation of production between general and special equipment vehicles, see Motor Vehicle Annex compiled separately by the Chief of Ordnance.”

Direct liaison between the chiefs of technical services is authorized and desired

131.12 Negative Figures. Negative figures inclosed in parentheses will be used to indicate the amount by which stock on hand exceeds computed U. S. Army requirements or total requirements. Negative figures will not be used for any other purpose.

131.13 Oversea Procurement. To integrate United States procurement in overseas theaters with required production, total required production for each period will be reduced by the amount of anticipated overseas procurement. The total so obtained will be indicated by two asterisks. Oversea procurement as used herein does not include procurement in Canada. In the “Remarks” column of the form provided for stating required production will be entered the note—

“Reduced by anticipated overseas procurement.”

131.14 Preparation of an Index. The Chief of each technical service will prepare an index of the items included in that portion of part A, section I, of the Army Supply Program relating to his service. These indices will be forwarded to the Director, Requirements Division, Army Service Forces, at the same time that the computations are transmitted. In the preparation of the index, the following instructions will be observed:

a. The chief of each technical service will number consecutively the pages pertaining to his portion of section I of the Army Supply Program, beginning with page 1 for part A and page 1 for part B. The name of the service will precede the page number, for example, Ordnance page 1A; Ordnance page 1B. The numbers will be placed in the lower right-hand corner of the odd-numbered pages and the lower left-hand corner of the even-numbered pages.

b. The index will be prepared in substantially the same form as that used in the last revision of section I of the Army Supply Program. Items will be arranged alphabetically and the appropriate page and item number shown

opposite each. The index will be single-spaced between individual items and double-spaced between alphabetical groups of items.

c. Separate indices will be provided by each service for parts A and B.

d. Forms for the index will be forwarded by the Director, Requirements Division, Army Service Forces, to the chiefs of the technical services.

131.15 Preparation of Dollar Value Summary. The chief of each technical service will prepare a summary of the dollar value of required production for his service as stated in parts A and B, section I, of the Army Supply Program. The dollar value summaries will be forwarded to the Director, Requirements Division, Army Service Forces, at the same time that the computations are submitted, unless the preparation of the summaries will delay forwarding final computations. In the latter event, the dollar value summaries will be transmitted not later than 5 days after delivery of the final computations. Separate dollar value summaries will be prepared for parts A and B, section I, of the Army Supply Program. In the preparation of the summary of part A, the following instructions will govern:

a. The summary for part A will show the money value of net required production for the U. S. Army, Navy, and International Aid and the total required production for each of the periods covered by the computations. Where these totals include items whose computed requirements exceed estimated production capacity, and which have been adjusted in accordance with instructions contained in the basic directive, the corresponding dollar entries on the summaries will be starred and explained by a footnote at the bottom of each page of the summary.

b. The dollar value summary for part A will state a grand total and will also be broken down by major groups of items shown in part A, section I, of the Army Supply Program, under critical, essential, and noncommon categories. Subtotals for these categories will be shown. For example, the Ordnance Department for part A would indicate critical items with a subtotal therefor and a break-down showing the money value of antiaircraft matériel, small arms and infantry weapons, automatic weapons, etc.

c. In stating the value of motor vehicles in the dollar value summary for part A, the chief of each technical ser-

vice will include in his summary the value of those motor vehicles for which he computes requirements and is charged with the fund responsibility. The Chief of Ordnance will include only the value of those motor vehicles for which he computes requirements, and will place a footnote substantially as follows at the bottom of the page of the ordnance summary on which the value of motor vehicles appears:

"Stated dollar value of motor vehicles does not include the value of those vehicles for which fund responsibility rests with services other than the Ordnance Department. Such values are included in the summaries of the services having fund responsibility."

d. Dollar values of negative requirements are considered as zero.

e. Forms for the statement of dollar value summaries will be forwarded by the Director, Requirements Division, Army Service Forces, to the chiefs of the technical services.

131.16 Instructions for Typing and Submission of Forms. Final computed required production for part A, section I, will be typed on the forms provided for this purpose by the Director, Requirements Division, Army Service Forces. The completed forms will be forwarded in duplicate to the Director, Requirements Division, Headquarters, Army Service Forces, at the time prescribed in the basic directive. *The report will be accompanied by an original and one carbon copy of a letter of transmittal signed personally by the chief of the technical service, which will explain in detail all qualifications of the data reported which are of a general nature and not specifically covered by notations in the "Remarks" column.* The letter of transmittal will note and explain variations from prescribed definitions and any other factors necessary for a complete understanding of the data reported. Work sheets will be kept by each technical service to show as a permanent record the quantities as actually computed and any adjustments which may have been necessary. Copies of section I of the Army Supply Program will be reproduced by the multilith process and, therefore, it is desired that new ribbons be used in typing and that the type be cleaned after each page is finished. Any corrections which it is found necessary to make will be made so as to correspond as nearly as possible with the original density of the typing.

Chapter 4

Preparation of Part B, Section I, Equipment, Ground

140.00 METHODS OF COMPUTATION

140.01 Purpose. The purpose of paragraph 140.00 and related subparagraphs is to state the general procedure involved in the computation of required production appearing in part B, section I, of the Army Supply Program. The procedures actually used will necessarily vary in accordance with instructions contained in the directive issued at the time of the revisions, with problems peculiar to each service, and the type of items involved. Part B encompasses a multitude of different kinds of supplies varying from thousands of expendables, such as subsistence, office supplies, spare parts, and lubricants, to large items of equipment such as locomotives and boats. Because of the wide variety in the types of items included, only general methods of computation are indicated.

140.02 Experience Factor Method. Under this method, experience factors which have been developed by the services from past experience, will be applied to the troop strengths for the periods involved. If the experience factors are related to types of organizations instead of the number of troops, such factors will be applied to the appropriate organizations indicated in the troop basis transmitted by the Director, Requirements Division, Army Service Forces. Reserves are provided in accordance with instructions contained in the basic directive. Stock on hand is deducted from total requirements to determine required production.

140.03 Canvass of Agencies. Required production for a number of items in part B, section I, is determined by canvassing the divisions of and agencies under the control of a chief of a technical service to ascertain its requirements for items not appearing in Tables of Organization and Equipment, Tables of Basic Allowances, or Tables of Allowances. Under this method the requirements unit of the technical service directs inquiries to the agencies within the service regarding their requirements for the periods

involved and assembles the data as obtained. Appropriate deductions are made for stock on hand.

140.04 Collation of Specific Operational Estimates and Requests. A great many of the items included in part B have no prescribed basis of issue and often little past experience to be used as a guide. In this category are railroad locomotives and cars, boats, cranes, construction and fortification material for oversea theaters, and similar items. In such instances the requests of oversea theater commanders, oversea surveys, the logistical plan as prepared by the Director of Plans and Operations, Army Service Forces, for oversea operations and estimates of qualified personnel in the office of the chief of the technical service familiar with anticipated operational plans, must constitute the basis for stated required production.

140.05 Computation of Total Required Production. Generally, total required production for the period involved will consist of requirements for the U. S. Army less stock on hand; required production for the U. S. Navy; and required production for International Aid where authorized by the Director, Requirements Division, to be included in stockpiles.

141.00 SPECIFIC INSTRUCTIONS

141.01 Responsibility. The Director, Requirements Division, Army Service Forces, is responsible for the formulation of a directive containing instructions for the preparation of part B, section I, of the program. The chiefs of the technical services are responsible for the computation of their respective portions of part B in accordance with the basic directive.

141.02 Purpose. The purpose of paragraph 141.00 and related subparagraphs is to state the recurring standard instructions which are applicable to each recomputation of *part B, section I*, of the Army Supply Program. These instructions relate only to standard phases and operations involved in each revision of part B, section I, and will be supplemented by the basic directive of the Director, Requirements Division, Army Service Forces. Except as modified by such directive at the time of the recomputation, the following instructions will be observed in the preparation of each revision of part B, section I.

141.03 Items to be Included. Part B will comprise all required production for equipment and for miscellaneous and expendable supplies for U. S. forces and appropriate "stock pile" items for International Aid not included in part A, except that for equipment of exclusive interest to the Army Air Forces. This comprehends U. S. Army required production for all items of equipment and expendable supplies which is not stated in part A, section I or sections II, III, and IV, of the Army Supply Program.

141.04 Nomenclature. The provisions of paragraph 131.04 are applicable.

141.05 Interservice Procurement Items. The provisions of paragraph 131.05 are applicable. In the instance of petroleum and materials handling equipment, dollar values only will be shown as required production.

141.06 Arrangement of Items. *a.* Equipment and supplies generally will be shown by the classes indicated in the Federal Standard Stock Catalog, except where individual services have been authorized by the Director, Requirements Division, Army Service Forces, to use another basis of classification. Classes will be listed in numerical order from 1 to 74, omitting any classes for which there is no required production. Under each class will be shown—

(1) Major items of that class stated separately.

(2) Other items of that class grouped by types. While a voluminous report is not desired, the types should be sufficiently specific to indicate their industrial significance. The unqualified term "Miscellaneous" will not be used.

b. Required production for items which are enumerated separately under a class will be expressed quantitatively and in terms of money value. Required production for items which are grouped by type under a class need only be stated in terms of money value.

c. The money value of the required production of each class for each year will be totaled opposite the class involved.

141.07 Unit and Unit Cost. The unit used for quantitative estimates should be that commonly used commercially, that is, pounds, tons, square feet, gallons, etc. In general, the unit should be such that quantities shown in the program may be expressed by not more than nine digits and that the unit cost should not be less than whole cents. Unit

cost will be the latest and best information available. For items that are stated separately, the units used and the cost of each unit will be shown in the appropriate places indicated on the form provided for the computations. Where items are grouped, unit and unit cost need not be indicated.

141.08 Oversea Procurement. On the form provided for the statement of required production, anticipated procurement in overseas theaters will be indicated on the line following the required production of the item. The difference will be entered on a third line and will represent required production of the item within the United States.

141.09 Navy Requirements. Each technical service will include known Navy requirements in the total required production shown for items which it procures for the Navy. The proportion of required production represented by Navy requirements will be indicated in the "Remarks" column of the form provided for the computation.

141.10 International Aid Requirements. International Aid requirements for miscellaneous equipment and expendable supplies, except those items included in the Engineer and Transportation "Stock Piles," and by the Medical Department will not be stated or included by the technical services in their total requirements, but will be stated by the International Division, Headquarters, Army Service Forces, in section III of the Army Supply Program. (See part III.)

141.11 Preparation of an Index. The chief of each technical service will prepare an index of the items included in that portion of part B, section I, of the Army Supply Program relating to his service. The index for part B will be prepared in the same manner as that prescribed for part A in paragraph 131.14.

141.12 Preparation of Dollar Value Summary. The chief of each technical service will prepare a summary of the dollar value of required production for his service as stated in part B, section I, of the Army Supply Program. This summary will be forwarded to the Director, Requirements Division, Army Service Forces, at the same time that the computations are submitted, unless its preparation will delay forwarding the final computations. In the latter event, the dollar value summary will be transmitted not later than

5 days after delivery of the final computations. In the preparation of the summary of part B, the following instructions will govern:

a. The summary for part B will show the dollar value of net required production for the U. S. Army, Navy, and International Aid, and the total of these three figures for each of the periods involved. Where computed requirements are adjusted to productive capacity in accordance with instructions contained in the basic directive, the corresponding dollar entries on the summaries will be starred and explained by a footnote at the bottom of each summary.

b. The dollar value summary for part B will state a grand total and will also be broken down by subtotals for classes or other major classifications used in the statement of required production in part B.

c. Forms for the statement of dollar value summaries will be forwarded by the Director, Requirements Division, Army Service Forces, to the chiefs of the technical services.

141.13 Instructions for Typing and Submission of Forms. Final computed required production for part B, section I, will be typed on forms provided for this purpose by the Director, Requirements Division, Army Service Forces. This will be accomplished in accordance with instructions provided in paragraph 131.16.

Chapter 5

Administration of Section I, Equipment, Ground, Parts A and B

150.00 SECTION I AS A BASIS FOR PRODUCTION SCHEDULING. Section I of the Army Supply Program is used as a basis for preparing production schedules. These schedules are actually prepared by the chiefs of the technical services under the supervision of the Director, Production Division, Headquarters, Army Service Forces, in accordance with instructions issued by him. Production schedules indicate the monthly plan by which the annual procurement objectives, stated in section I of the program as total required production for each year, are to be achieved. Schedules of selected items are reflected in the Procurement Section of the Monthly Progress Report.

151.00 SECTION I AS A PROCUREMENT AUTHORITY.

Except for emergencies, for development work and for requisitions of nonstandard equipment by the Office of Strategic Services, section I of the Army Supply Program is the procurement authority for the items contained therein within the limits prescribed by the Director of Matériel, Headquarters, Army Service Forces. Upon the publication of each revised edition of section I, the Director of Matériel will issue a directive to the chiefs of the technical services indicating the annual periods or portions thereof for which procurement of total required production shown in the program may be initiated. Changes in this general procurement authority will be made only by the Director of Matériel.

151.01 Emergency Procurement. Emergency procurement of a nonrecurring nature for task forces may be authorized by the Director of Supply through the medium of directives issued to the chiefs of the technical services. Such procurement will be cleared with the Director, Requirements Division, and the Director, Production Division, at the time it is authorized. The chiefs of the technical services may initiate a change in the Army Supply Program in accordance with paragraph 154.02 where such procurement involved significant quantities of items or significant amounts of critical materials.

151.02 Procurement for Development Work. Procurement involved in the development and standardization of new items will be as specifically authorized by the Director, Requirements Division, Army Service Forces, in connection with each development project.

151.03 Procurement for the Office of Strategic Services. Requirements of the Office of Strategic Services for standard articles of equipment are included in that required production shown in section I of the Army Supply Program in the manner prescribed in paragraph 120.03*b* and are procured as a part of total required production in accordance with paragraph 150.00. The procurement of nonstandard items of equipment for the Office of Strategic Services will be specifically authorized in each instance by the Director, Requirements Division, Army Service Forces. Such procurement will not be reflected in the Army Supply Program.

151.04 Approved Changes in Section I as Procurement Authority. An approved change in section I of the Army Supply Program constitutes authority for increasing or decreasing procurement.

152.00 SECTION I AS A BASIS FOR FISCAL ESTIMATES.

The Army Supply Program is used whenever practicable for estimating the amount of funds to be requested from Congress and for justifying such estimates. The Director, Requirements Division, will indicate to the Fiscal Director, Army Service Forces, the annual periods of required production stated in the program to be included in Congressional estimates. The Fiscal Director, Headquarters, Army Service Forces, will issue directives to the chiefs of the technical services containing detailed instructions for the preparation of fiscal estimates and the extent to which the Army Supply Program will be used for this purpose.

153.00 SECTION I AS A BASIS FOR COMPUTATION OF RAW MATERIALS, FACILITIES, POWER AND LABOR REQUIREMENTS

153.01 General. After section I of the Army Supply Program has been computed, summarily adjusted to productive capacity in accordance with paragraph 130.08b, and published, the technical services prepare their monthly procurement plans for meeting the Army Supply Program objectives. The Director, Production Division, from time to time as required, undertakes comprehensive analyses of these procurement plans to ascertain the requirements for selected periods of time in terms of specific materials, components, end products, facilities, power, and labor. Labor analyses are coordinated with the Industrial Personnel Division, Army Service Forces.

153.02 Computation of Raw Materials. The quantities of certain materials required to meet the procurement schedules based upon the Army Supply Program and other authorized procurement are estimated by the technical services in accordance with instructions issued by the Director, Production Division. The detailed procedures for computing the requirements for controlled materials, as required by the Controlled Materials Plan, are stated in Army Service Forces Manual M602, "Controlled Materials Plan Operation." After the amounts of materials have been ascer-

tained, the requirements are transmitted to the War Production Board for determination of the allocations to the War Department and other claimant agencies. The Army's allocation is subdivided among the technical services by the Director, Production Division.

153.03 Computation of Products and Components Subject to Allocation. Requirements for products and components subject to allocation by the War Production Board are computed from procurement schedules based upon the Army Supply Program and other authorized procurement by the technical services in accordance with directives issued by the Director, Production Division. The Army requirements are submitted to the War Production Board for allocation. The Director, Production Division, determines the apportionment of the Army allocation among the technical services and issues such allotments to the services.

153.04 Preference Ratings and Priorities. The priority directives issued by the Army and Navy Munitions Board assign preference ratings to the end items covered in the Army Supply Program. Under authority delegated by the Army and Navy Munitions Board the actual rating of contracts is done by the technical services within the limits specified by the Army-Navy Munitions Board directives.

153.05 Adjustments in Required Production as a Result of Detailed Analyses or Insufficient Allocations. Deficiencies which will prevent the accomplishment of the required production objectives stated in section I of the program may develop as a result of the detailed analyses mentioned above or as a result of failure to receive sufficient allocations of materials, components, or products. In either event, the Director, Production Division, will report the deficiencies to the Director, Requirements Division, together with recommendations for adjustments in the program which may appear desirable. The Director, Requirements Division, will make any desired changes in section I in the manner prescribed in paragraph 154.04.

153.06 Notification to Planning Agencies of Shortages. The Director, Requirements Division, has the responsibility of notifying appropriate planning agencies, such as the War Department General Staff and the Director of Plans and Operations, Army Service Forces, of required production

in the Army Supply Program which cannot be produced so that any necessary adjustments in military plans can be made.

154.00 INTERIM CHANGES IN SECTION I OF THE ARMY SUPPLY PROGRAM

154.01 General. Changes authorized in section I, part A or B, of the Army Supply Program between the dates of each recomputation are known as interim changes. A change in section I is a change in required production as stated in the program. A change in required production must be distinguished from a change in requirements. Requirements may, and often do, fluctuate from many causes, such as exceptional issues and revisions in allowances. However, required production as stated in the program and production schedules based thereon cannot be changed with each variation in requirements. It is therefore imperative to restrict changes in section I of the program to those instances in which production objectives must be revised.

154.02 Processing Changes in Required Production. The chief of each technical service may recommend changes in required production of the items appearing in his portion of section I. Such recommendations will be forwarded to the Director, Requirements Division, Army Service Forces. In the preparation of proposed changes in section I, the following policies will be observed:

a. Changes to section I of the Army Supply Program will be recommended only where it is necessary to change required production. In general, a change in the program will not be submitted unless it amounts to an increase or decrease of at least 10 percent of the total annual required production for the item involved. A change in the program will be submitted, however, in every instance where it is desired that a change be made in production objectives.

b. All proposed changes to part A, section I, will be submitted on forms similar to that attached as Form A. All proposed changes to part B, section I, will be submitted on forms similar to that attached as Form B. Seven copies of each proposed change will be submitted by the chief of the technical service recommending the change, except The Quartermaster General, who will submit eight copies.

c. Each change recommended in the program will be accompanied by a detailed statement of the reasons why the change is deemed necessary.

d. For major changes involving an increase, there will be included a statement as to—

(1) The procurability from existing facilities of the required additions.

(2) The amount of time which will be lost in effecting the necessary adjustments in facilities.

e. For major changes involving a reduction, there will be included the estimated cost of damages for any contract cancellations which will be rendered necessary if the change is approved.

f. A statement of the quantities of controlled materials and rubber involved will be forwarded where the aggregate amount of such materials or the effect on existing production schedules by the proposed change is considered to be "significant" in the judgment of the chiefs of the technical services. This statement will be rendered in duplicate on forms similar to that attached hereto as Form C. The chiefs of the technical services need not contact the Director, Production Division, Headquarters, Army Service Forces, as to the availability of such materials prior to the submission of this form with the recommended change in the Army Supply Program.

g. When received by the Director, Requirements Division, the proposed changes will be numbered separately and consecutively for each service.

154.03 Changes in Required Production of Items of Common Interest to the Army Air Forces. Such changes may be initiated by the chief of the technical service concerned or by the Army Air Forces. If initiated by the technical service, the change will be processed in accordance with paragraph 154.02. If initiated by the Army Air Forces, the change will be forwarded to the chief of the technical service concerned who will process it in accordance with paragraph 154.02.

154.04 Initiation of Changes by the Director, Requirements Division, Headquarters, Army Service Forces. The Director, Requirements Division, may initiate a change in part A or B, section I, of the Army Supply Program. In such instances, the chief of the technical service concerned will be consulted. Such changes will be assigned a number, indicated on forms similar to Forms A and B attached hereto, and forwarded to the chiefs of the technical services

concerned after approval in accordance with paragraph 154.05.

154.05 Approval of Changes in Required Production. A change to section I of the Army Supply Program is not valid unless approved by the Director, Requirements Division, Army Service Forces, or by the Director of Matériel, Army Service Forces. Changes representing 10 percent or more of the annual required production for major ground items as stated in section I of the Army Supply Program must be approved personally by the Director of Matériel, Army Service Forces, and by the Assistant Chief of Staff for Requirements, Army Ground Forces.

a. Concurrence of Director, Production Division, Headquarters Army Service Forces. The concurrence of the Director, Production Division, will be obtained by the Director, Requirements Division, prior to the approval of any interim change in total required production as stated in section I of the Army Supply Program.

b. Concurrence of Director, Purchases Division, Headquarters Army Service Forces. The concurrence of the Director, Purchases Division, will be obtained by the Director, Requirements Division, prior to the approval of any interim change in total required production of common commercial type items, such as subsistence and clothing.

c. Concurrence of Director, International Division, Headquarters Army Service Forces. The concurrence of the Director, International Division, will be obtained by the Director, Requirements Division, prior to the approval of any interim change in required production for International Aid.

d. Concurrence of Assistant Chief of Air Staff, Matériel, Maintenance and Distribution. The concurrence of the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, will be obtained by the Director, Requirements Division, prior to the approval of any interim change in required production for items of common interest to the Army Air Forces.

154.06 Effect of a Change in Required Production. A change in required production as stated in section I of the Army Supply Program is effective as of the date it is approved. When approved, the change constitutes authority to increase or decrease procurement and production schedules to conform to the revised figures.

154.07 Publication of Summary of Changes. A summary of all approved changes in section I of the Army Supply Program will be published by the Director, Requirements Division, Army Service Forces, on the 25th of each month and distributed to the holders of the program.

154.08 Recording and Processing Changes in Requirements.

a. All changes in requirements, as distinguished from required production, for items appearing in section I of the Army Supply Program will be referred to the chiefs of the technical services charged with the determination of requirements for the items involved. If the chief of the technical service is in doubt as to the firmness or validity of a change in requirements, he may submit the matter to the Director, Requirements Division, Army Service Forces, for confirmation. A change in requirements will be transmitted in quintuplicate on forms similar to that attached as Form D. A confirmation of the revised requirement does not constitute a change in the Army Supply Program and does not authorize a corresponding alteration in procurement or production schedules of the item involved. No summary of such confirmations will be published by the Director, Requirements Division.

b. The chiefs of the technical services will maintain a cumulative record of changes in requirements. When the requirements for an item vary in sufficient degree from required production stated in the program, an appropriate change in section I will be recommended in accordance with paragraph 154.02.

155.00 PUBLICATION AND DISTRIBUTION OF SECTION I OF THE ARMY SUPPLY PROGRAM

155.01 Responsibility. All portions of section I, parts A and B, of the Army Supply Program are assembled by the Director, Requirements Division. After approval, a complete original typewritten copy of section I is forwarded to The Adjutant General for reproduction and distribution.

155.02 Publication Dates. Section I, parts A and B, of the Army Supply Program will be recomputed semi-annually and published on or about 1 February and 1 August of each year.

155.03 Form in which Published. Section I is issued

both in complete volumes covering all services and in extracts covering separate services. The extracts issued are as follows:

Ordnance	Medical Department
Signal	Quartermaster
Engineers	Transportation
Chemical Warfare Service	Army Air Forces

155.04 System of Distribution. One branch in the office of each staff division of the Army Service Forces and in the office of the chief of each technical service is designated by the director of each staff division and the chief of each technical service, respectively, to receive and distribute all copies of the Army Supply Program required by the personnel of his division or service. A similar designation is made by the Navy Department, the Commanding General, Army Air Forces, and the Chairman, War Production Board, for the purpose of distributing copies required by these agencies. Copies of the program will be delivered by The Adjutant General to these offices and others in accordance with a distribution list prepared by the Director, Requirements Division.

155.05 Distribution List. The distribution list for the Army Supply Program is prepared by the Director, Requirements Division, Army Service Forces, from requests received by various interested agencies. Each branch or other agency will submit to the Director, Requirements Division, a statement of the number of copies desired on forms substantially the same as that attached as Form E not later than 15 June and 15 December of each year. The request for a copy for any individual or office within the chief of the technical service or within a staff division of the Army Service Forces must be routed through the branch of the service or staff division designated to distribute copies of the program. Requests for additional copies for offices and individuals not in the technical services, staff divisions of the Army Service Forces, Army Air Forces, Navy Department, or the War Production Board will be submitted to the Director, Requirements Division. Requests for copies for agencies or individuals outside the War Department who have not received copies of the program in the past will be forwarded to the Director, Control Division, Army Service Forces, for appropriate action.

155.06 Disposition of Obsolete Copies. Copies of the program which are no longer needed should be disposed of in the manner prescribed by the office which received such copies originally from The Adjutant General. Obsolete copies should not be returned to The Adjutant General or to the Director, Requirements Division. Destruction of such copies will be in accordance with AR 380-5.

156.00 RECORDS TO BE MAINTAINED BY CHIEFS OF TECHNICAL SERVICES

156.01 Record of Exceptional Issues. The units responsible for the computation of requirements in the offices of the chiefs of the technical services will maintain a running record by item of exceptional issues in accordance with the following instructions:

a. This record will include all items of part A, section I, and major items of part B of the Army Supply Program. It will be cumulative from the date of the last computation of requirements for each item and the information posted will be taken from exceptional issues authorized by the Operations Division, War Department General Staff; the Stock Control Division, Army Service Forces; the Operations Division, Army Service Forces, or other authorized War Department agencies. The date of posting will be the date of authorization of the issue.

b. The record will show for each item involved, a cumulative net exceptional issue figure which will be the algebraic sum of the total excess issues and the total under issues.

c. Whenever the amount of the net exceptional issues of any item is sufficiently large to affect the required production for that article, recommendations for the appropriate changes in the Army Supply Program will be submitted to the Director, Requirements Division, Army Service Forces, in accordance with paragraph 154.02.

156.02 Other Data. The units responsible for the computation of requirements in the offices of the chiefs of the technical services will maintain current and complete records of the following:

- a. Tables of Organization and Equipment.
- b. Tables of Basic Allowances.
- c. Special lists of equipment.
- d. Replacement factors. (See manual entitled "Deter-

mination and Use of Maintenance Factors and Distribution," Headquarters, Army Service Forces, July, 1943.)

e. Consumption factors. (See manual entitled "Determination and Use of Maintenance Factors and Distribution," Headquarters, Army Service Forces, July, 1943.)

f. Special project allowances.

g. Items requiring special adjustments.

BOOK II

**THE ARMY SUPPLY
PROGRAM—SECTION II,
EQUIPMENT, AIR**

200.00

BOOK II

THE ARMY SUPPLY PROGRAM—SECTION II, EQUIPMENT, AIR

Chapter I

General

210.00 SCOPE OF SECTION II. Section II, Equipment, Air, sets forth the adjusted requirements (see definition 212.12), during indicated periods, for—

210.01 Army Air Forces Purchased Matériel. *a.* All equipment and supplies, exclusive of aircraft and aircraft initial and spare components and parts, used by the Army Air Forces or the Army Ground Forces for which the Army Air Forces has fund and requirements responsibility, including the requirements of the Navy Department and International Aid for such equipment and supplies.

b. For purposes of convenience, the items included in this definition are referred to throughout book II as matériel or items *purchased* by the Army Air Forces, although in certain instances the items may actually be purchased by agencies other than the Army Air Forces.

210.02 Army Service Forces Purchased Matériel. Equipment and supplies of exclusive interest to air operations, purchased by the Army Service Forces for the Army Air Forces, Navy Department, or International Aid.

210.03 Common Items. Items which are of common interest to the Army Air Forces and the Army Ground Forces and are purchased by the Army Service Forces for the Army Air Forces, such as certain signal, ordnance, chemical warfare, and engineer items are not set forth in section II. For purposes of general information, however, such items may be indicated parenthetically therein.

210.04 Aircraft and Aircraft Components and Parts. Production requirements for aircraft and aircraft initial and spare components and parts purchased by the Army Air Forces are set forth in schedules prepared by the Joint Aircraft Committee and the Aircraft Production Board and by the Matériel Command, Army Air Forces, and are incorporated in section II of the Army Supply Program by reference only.

211.00 DIVISIONS OF SECTION II. Section II consists of parts A, B, and C.

211.01 Scope of Part A. Part A consists of *equipment* purchased by the Army Air Forces, as defined in paragraph 210.01.

211.02 Scope of Part B. Part B consists of miscellaneous and expendable *supplies* purchased by the Army Air Forces as defined in paragraph 210.01.

211.03 Scope of Part C. Part C consists of the following subsections:

a. Signal Corps. Air communication equipment of exclusive interest to air operations purchased by the Signal Corps for the Army Air Forces, Navy Department, or International Aid.

b. Ordnance. Air ordnance equipment of exclusive interest to air operations purchased by the Ordnance Department for the Army Air Forces, Navy Department, or International Aid. The Army Air Forces' share of ordnance items common to both air and ground units, which is included in section I, is indicated parenthetically.

c. Chemical Warfare. Air chemical equipment of exclusive interest to air operations purchased by the Chemical Warfare Service for Army Air Forces, Navy Department, or International Aid. The Army Air Forces' share of chemical warfare items common to both air and ground units but of primary interest to air units or units of arms and services with Army Air Forces, which is included in section I, is indicated parenthetically.

d. Engineers. Engineer equipment of exclusive interest to air operations purchased by the Corps of Engineers for the Army Air Forces.

212.00 DEFINITIONS. The following definitions are applicable to section II of the Army Supply Program.

212.01 Matériel is equipment and supplies, whether purchased by the Army Air Forces or Army Service Forces. For the purpose of this manual the term excludes aircraft and aircraft initial and spare components and parts.

212.02 Requirements are the quantity of matériel needed for specified military forces during a stated period for such stated purposes as initial issue, provision for replacement consumption, and allowances for shipping losses and for changes in domestic stock levels, pipe line, and theater reserves.

212.03 Initial issue is the quantity of matériel required to provide original equipment for military units, consisting of prescribed issue, that is, items authorized by approved tables of allowances, etc., and special issue, that is, items approved for issue in excess of the quantity authorized in approved tables, items approved for issue to units for which there is no approved table, and items not provided for in approved tables.

212.04 Replacement is the amount of *nonexpendable matériel* required during a stated period to replace losses due to wearing out beyond repair, capture, abandonment, destruction, pilferage, and all other causes except in-transit losses attributable to ship sinkings, losses of certain items of clothing incident to the separation of personnel from the service, and losses from such other categories of attrition as may be specifically excepted from time to time. Replacement is taken account of by a replacement factor, which is defined as a measure of the average monthly wastage during the expected life of a piece of equipment expressed in percent. In general, two replacement factors will be established for each nonexpendable item of equipment; one for the zone of the interior and the other for theaters of operation. The zone of the interior, as used herein, includes the continental United States and such other inactive areas, bases, departments, and commands as may be announced from time to time. Theaters of operation, as used herein, includes all oversea areas, bases, commands, and theaters of operation not included in the zone of the interior as defined above.

212.05 Consumption is the amount of *expendable matériel* required during a stated period to replace losses due to capture, abandonment, destruction, pilferage, and all other causes except in-transit losses attributable to ship

sinkings. Consumption is a direct measure of requirements based upon expected activity under the Army Air Forces' program in the zone of the interior and the theater of operations.

212.06 Distribution is the average quantity of an item of matériel required at any given time to insure the required flow of matériel from the point of acceptance to the place of issue (both inclusive). Distribution is made up of the following elements:

a. Domestic stock levels are the quantity of matériel required to be on hand available for issue in depots and sub-depots, in the zone of the interior.

b. Theater reserves are the quantity of matériel required to be maintained in depots in the theaters of operation to provide for current issues, for emergency needs, and for anticipated extraordinary demands.

c. Pipe line is the average quantity of matériel, exclusive of domestic stock levels or theater reserves, needed at any given time to insure the required flow of matériel from the point of acceptance to the place of issue.

212.07 Shipping losses are the quantity of matériel required to replace losses arising from ship sinkings.

212.08 Basic requirements are the quantity of matériel necessary for a stated period to cover initial issue, replacement or consumption, and shipping losses of the Army Air Forces.

212.09 Adjusted requirements are basic requirements increased or decreased by the quantities necessary to increase or decrease, over a stated period, domestic stock levels, pipe line and theater reserves to their required levels.

212.10 Net purchase requirements are the quantity of matériel which is to be purchased during an indicated period. The net purchase requirement with respect to any item is determined by deducting from the adjusted requirement for that item the amount of that item on contract but not delivered.

212.11 Schedule of requirements is a statement of requirements for a number of stated periods.

212.12 Unit cost is the cost to the Government of one unit, the unit for this purpose being identical with the unit of issue.

Chapter 2

Sources of Basic Data

220.00 ARMY AIR FORCES REQUIREMENTS

220.01 Strategic Plans. Requirements for the Army Air Forces and for items procured by Army Air Forces for Army Ground Forces are based on the strategic plans of the Combined Chiefs of Staff, the Joint Chiefs of Staff, and the War Department General Staff. These plans are converted into equipment and supply requirements through the following media which are obtained from the sources indicated:

220.02 Army Air Forces Group Program. The group program is a schedule indicating the number of groups to be activated by periods over a given time. It is based on the strategic plans referred to in paragraph 220.01 and itself constitutes the basis of all other more detailed Army Air Forces programs. The Assistant Chief of Air Staff, Plans, is responsible for the preparation of this program and required revisions thereof.

220.03 Army Air Forces Unit Program. The units program is a schedule, based on the group program (par. 220.02), and included in the troop basis (par. 220.05), showing by months the number of tactical, service, and other organizations (squadrons, groups, etc.) by type which are assigned or are to be assigned to each command, continental air force, and theater air force. It is used as a basis for the calculation of equipment required by the Army Air Forces and especially of that equipment for which prescribed rates of issue have been established. The Assistant Chief of Air Staff, Operations, Commitments and Requirements, is responsible for the preparation of this program and required revisions thereof.

220.04 Army Air Forces Training and Other Programs. In addition to the units program, certain other programs, derived therefrom and setting forth in detail required schedules for various special phases of Army Air Forces operations, are necessary for the determination of equipment and supplies. Examples of such derivative programs are the Army Air Forces training program and the program for

ferrying and transport operations. The Assistant Chief of Air Staff, Training, is responsible for the preparation of the training programs; the preparation of all other derivative programs is arranged for by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution.

220.05 Troop Basis. The troop basis is the compilation of the number and types of units which it is contemplated will be activated by the United States Army during the years to be covered by the Army Supply Program. It is the same troop basis used in computing section I of the Army Supply Program (par. 120.01). It is used as a basis for the calculation of requirements of equipment for the Army Ground Forces supplied by the Army Air Forces.

220.06 Other Data. In addition to strategic data, the following sources of information are involved in the preparation of section II:

a. Tables of Organization. The organic structure of tactical units listed in the troop basis and Army Air Forces unit program is prescribed in the Tables of Organization.

b. Tables of Distribution. The allotments of personnel and ratings for training and school units not formed as tactical organizations are prescribed in Tables of Distribution.

c. Allowance tables. Allowance tables prescribe allowances of equipment for tactical and training units and installations of the U. S. Army. These tables consist of the following:

(1) Tables of Equipment which prescribe bases of issue of organizational equipment for tactical units. These are combined with Tables of Organization as Tables of Organization and Equipment.

(2) Tables of Basic Allowances which state allowances for tactical units for which Tables of Equipment have not been established.

(3) Tables of Allowances which prescribe bases of issue of equipment for nontactical units, including training and school units, at posts, camps, and stations.

(4) Special lists of equipment which state allowances for special units for emergency oversea movements which are not organized under a regular Table of Organization; also special lists of equipment which state modifications of authorized equipment allowances on special request of a theater commander.

(5) Technical Orders (00-30 series) which prescribe Army Air Forces procured contents of kits or sets of equipment listed in Tables of Organization and Equipment or Tables of Allowances. Army Service Forces procured items contained in Technical Orders are individually listed in appropriate sections of Tables of Organization and Equipment, Tables of Allowances, and special equipment lists.

220.07 Allocation Charts. Charts prepared by the Assistant Chief of Air Staff, Operations, Commitments and Requirements, set forth the number of airplanes by type, estimated to be tactically available, which are to be allocated to the various theaters and units each month over a projected period and the estimated quantities on hand at monthly intervals over a future period.

220.08 Tab B. The basis of computation for requirements of the Army Air Forces for ordnance and chemical warfare equipment, ammunition, and supplies is established by the Assistant Chief of Air Staff, Operations, Commitments and Requirements, in a document generally referred to as "Tab B." Tab B establishes, among other things, the attrition rates, mission rates, ammunition loads, and expenditure rates to be used by the Chief of Ordnance or the Chief of Chemical Warfare Service in determining the requirements for matériel to be procured by their services for the Army Air Forces.

220.09 Armament and Bomb Installation Monthly Chart, EE-306-A. This chart shows the number, type, and model of gun for each type of airplane, the ammunition loads for each gun, and the bomb loads for each airplane. It is prepared by the Army Air Forces, Matériel Command, Wright Field, Dayton, Ohio.

220.10 Joint Aircraft Committee Working Schedule. This report shows airplanes produced and airplane production schedules for the future. It is prepared by the Joint Aircraft Committee and the Aircraft Production Board.

220.11 Requirements for Special Equipment and Supplies. These requirements are reported by the various air forces and commands in the continental United States in accordance with Army Air Forces Regulation 65-21.

221.00 REQUIREMENT OF NAVY DEPARTMENT AND UNITED NATIONS. Requirements of the above agencies

for matériel purchased by the Army Air Forces and for matériel of exclusive interest to air operations purchased by the Army Service Forces for the Army Air Forces, will be obtained by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, except for United Nations requirements for air communication equipment which will be obtained by the air communications officer from actions of the special subcommittee on radio requirements of the Joint Aircraft Committee, and United Nations requirements for aircraft armament which are computed by the Chief of Ordnance on the basis of aircraft assignments to other nations. Bases used by the Navy and United Nations in computing requirements will in general be comparable to those used by the Army Air Forces for the same purpose.

Chapter 3

Preparation of Section II, Equipment, Air

230.00 GENERAL INSTRUCTIONS. The following subparagraphs set forth standard instructions applicable to each recomputation of section II.

230.01 Forms. The forms used in station adjusted requirements in parts A and B will be prescribed by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, the forms for the various subsections of part C will be those provided for this purpose by the Director, Requirements Division, Army Service Forces.

230.02 Arrangement. Items are to be arranged as follows:

a. Parts A and B. Numerically by property class and by stock number within property classes.

b. Part C. By major classes, where considered desirable or necessary by the technical service, and alphabetically within classes.

230.03 Nomenclature. For items in parts A and B, nomenclature will be identical with those used in the Army Air Forces stock list. For items in part C, nomenclature will conform generally with that prescribed by the Army Service Forces. Nonstandard items will be designated by the word "nonstandard" inclosed in parentheses immediately below the name of the item.

230.04 Items Procured by Other Services. If the agency which has the purchase responsibility for an item is different from the agency which has fund and requirements responsibility, this will be indicated by a note in the "Remarks" column opposite the item as follows: "Purchased by"

230.05 Unit of issue. The unit of issue will be expressed in terms commonly used commercially, that is, each, pair, pounds, tons, square feet, gallons, etc.

230.06 Negative figures. Negative figures will be used to indicate the amount by which stock on hand at the beginning of year in excess of necessary stock levels, exceeds basic requirements for the year.

230.07 Component parts of sets. Where requirements are stated in terms of sets, requirements for component parts to be issued separately will not include requirements for them as component parts of sets.

230.08 Dollar value summary. There will be submitted simultaneously with the statements of requirements, a dollar value summary of such requirements. Separate summaries will be prepared for part A, part B, and the various subsections of part C. In preparing the dollar value summary for each class of items, and for all classes of items, negative requirements (par. 230.06) will be considered as zero. The summary will be prepared on forms furnished by the Director, Requirements Division, Army Service Forces.

230.09 Transmission. Completed forms for all parts of section II will be forwarded on the date established by directive to the Office of the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution Headquarters, Army Air Forces, in duplicate for transmission to Director, Requirements Division, Army Service Forces.

231.00 PREPARATION OF PART A

231.01 Responsibility. The Commanding General, Army Air Forces, is responsible for the preparation of part A of section II. Determination of the requirements contained in part A is supervised generally by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, whose duties also include the providing of necessary planning bases and factors and the final assembly, review, ap-

proval, and transmission of section II to the Army Service Forces. The computation of the requirements in part A is the responsibility of the Commanding General, Air Service Command. The responsibilities of the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution and the Commanding General, Air Service Command, with respect to the determination of requirements are set forth in Army Air Forces Regulation 65-21.

231.02 Methods of Computation. The procedure for determining the adjusted requirements for items comprising part A is as follows:

a. Ascertain the initial issue of special equipment (see definition 212.03) for the Army Air Forces from reports submitted by the various Army Air Forces commands and continental air forces in accordance with Army Air Forces Regulation 65-21.

b. Compute the initial issue of prescribed equipment for the Army Air Forces (see definition 212.03) by applying the prescribed rates of issue contained in such tables to the number of personnel or organizations as determined from the Army Air Forces units program, together with Tables of Organization and Tables of Distribution.

c. Ascertain basic requirements by adding to the combined totals of initial issue of prescribed and special equipment, the requirements for replacement and shipping losses.

d. Determine adjusted requirements by adding to or deducting from the basic requirements, the quantities necessary to increase or decrease, over the period of 1 year, domestic stock levels, pipe line, and theater reserves to their required levels.

e. To the adjusted requirements of the Army Air Forces, add the requirements of the Navy Department and the United Nations. (See par. 221.00.)

232.00 PREPARATION OF PART B

232.01 Responsibility. The responsibilities for the preparation of part B, covering miscellaneous and expendable supplies purchased by the Army Air Forces for use in air force units and installations, are identical with those for part A, as set forth in paragraph 231.01.

232.02 Methods of Computation. The procedure for determining the adjusted requirements for items comprising part B is as follows:

a. Compute basic requirements for the Army Air Forces by determining expected consumption as related to the Army Air Forces program, expected activity under the program, and factors relating past consumption to past activities.

b. Determine adjusted requirements by adding to or deducting from the basic requirements, the quantities necessary to increase or decrease, over the period of 1 year, domestic stock levels, pipe line, and theater reserves to their required levels.

c. To the adjusted requirements of the Army Air Forces, add the requirements of the Navy Department and the United Nations. (See par. 221.00.)

233.00 PREPARATION OF SUBSECTION A, PART C, SECTION II, EQUIPMENT, AIR (AIR COMMUNICATION EQUIPMENT)

233.01 Responsibility. The Commanding General, Army Air Forces, is responsible for the preparation of subsection A, part C, section II, which covers air communication equipment of exclusive interest to air operations purchased by the Signal Corps for the Army Air Forces, Navy Department, or International Aid. The actual computation of requirements is accomplished by the air communications officer, working, with respect to some items, in collaboration with the Signal Corps, Army Service Forces.

233.02 Methods of computation.

a. *Computation of initial issue for air signal equipment.* Initial issue of airborne communication and radar equipment are based upon military requirements for such equipment as established by the Assistant Chief of Air Staff, Operations Commitments and Requirements and upon the Joint Aircraft Committee Working Schedule. Initial requirements of organizational equipment of exclusive interest to Army Air Forces used on the ground to communicate with aircraft is computed by the application of allowance tables to units shown in the troop basis. To the product obtained must be added special requirements and allowances, not authorized by regular allowance tables, computed as follows:

(1) *Fixed installations.* The equipment required for a normal installation of a certain power output, to cover an average range, is determined and is increased by the num-

ber of such installations planned by the command charged with the particular function requiring the equipment. Such normal installations must be adjusted for arctic and tropical conditions and for locations where the distance to be covered is greater or less than the norm.

(2) *Equipment for mobile units.* The Army Air Forces have many special types of units. Due to the rapid expansion of the Army Air Forces, the character of this war, and the rapidity of changes, flexible types of units are essential. Accordingly, it is necessary to compute requirements for such units individually as they are planned for activation, rather than by using standard tables.

b. *Computation of basic and adjusted requirements.* To the total requirements for initial issue, allowances are added to provide for replacement or consumption and shipping losses. Basic requirements are then increased or decreased by the quantities necessary to increase or decrease, over a stated period, domestic stock levels, pipe line, and theater reserves to their required levels. For this purpose, stock on hand quantities, are furnished by the Chief Signal Officer.

c. *Total required production.* To the total adjusted requirements of the Army Air Forces, add the requirements of the Navy Department and the United Nations. (See par. 221.00.)

233.03 Arrangement of Items. Equipment listed in this section will be arranged in alphabetical order. Items will be classified as airborne, ground, and miscellaneous. Airborne equipment will consist of that which is installed in aircraft and made a part thereof and such test equipment used primarily therewith. Ground equipment is that equipment of exclusive interest to the Army Air Forces which is used to communicate with aircraft, including ferrying routes and airdrome equipment, and equipment required for point-to-point communication such as in air defense and fighter control net systems. It also includes related test and training equipment.

234.00 PREPARATION OF SUBSECTION B, PART C, SECTION II, EQUIPMENT, AIR (AIR ORDNANCE EQUIPMENT).

234.01 Responsibility. The Commanding General, Army Air Forces through the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution is responsible for

furnishing the latest approved Army Air Forces program information necessary for the computation of requirements, and additional bases, factors, or allowances, originating outside the Office of the Chief of Ordnance, as are required for the computation of requirements for inclusion in subsection B, part C, section II, which covers air ordnance equipment of exclusive interest to air operations, purchased by the Ordnance Department for the Army Air Forces, Navy Department, or the United Nations. The actual computations are accomplished by the Chief of Ordnance. (Army Air Forces Regulation 65-56, dated 1 June 1943; Order No. 48, Chief of Ordnance, dated 18 May 1943, subject "Duties and Responsibilities of Army Service Forces (Ordnance Department) and Army Air Forces in Connection with Aircraft Armament.")

234.02 Methods of Computation.

a. Aircraft armament. Requirements for aircraft guns are determined by the application of allowances per airplane, as shown in the Armament and Bomb Installations Monthly Chart, EE 306-A, to the latest Joint Aircraft Committee Working Schedule.

b. Ammunition. Requirements for ammunition are determined by multiplying the number of airplanes planned as unit strength and planned to enter theaters, by the ammunition loads per airplane, the sortie rate, and the expenditure rates per sorties for ammunition. Ammunition loads are established by airplane model specifications which set forth the number of rounds carried for each gun installed by airplane type and model designation. They are shown in the Armament and Bomb Installations Monthly Chart, EE 306-A. Sortie rates and expenditure rates to be used are prescribed in Tab B. Percentage distribution by type, that is, armor piercing, tracer, and incendiary, is also prescribed in Tab B. Requirements for training ammunition are computed by the air ordnance officer on the basis of the current Army Air Forces troop basis and AR 775-10. To the requirements thus obtained are added allowances for stock levels, distribution, and anticipated shipping losses as prescribed by the Commanding General, Army Air Forces. From this sum is deducted quantity "on hand" as of a specified date to ascertain adjusted requirements.

c. Bombs. Requirements for bombs are determined by multiplying the number of airplanes planned as unit

strength of combat units in theaters of operation by sortie rates and bomb loads per type of airplane. To the requirements thus obtained are added allowances for stock levels, distribution, and anticipated shipping losses as prescribed by the Commanding General, Army Air Forces. From this sum is deducted quantity "on hand" as of a specified date to ascertain adjusted requirements.

d. Pyrotechnic Equipment. Requirements for pyrotechnic pistols and dischargers are determined by multiplying allowances per life raft or per airplane by the number of rafts or airplanes. Requirements for flares and signals are based upon expenditure rates, mission rates per airplane, and the number of airplanes as used in computing ammunition requirements. To the requirements thus obtained are added allowances for stock levels, distribution, and anticipated shipping losses as prescribed by the Commanding General, Army Air Forces. From this sum is deducted quantity "on hand" as of a specified date to ascertain adjusted requirements.

e. Total Required Production. To the adjusted requirements of the Army Air Forces are added the requirements of the Navy Department and the United Nations. (See par. 221.00.)

235.00 PREPARATION OF SUBSECTION C, PART C, SECTION II, EQUIPMENT, AIR (AIR CHEMICAL EQUIPMENT).

235.01 Responsibility. The Commanding General, Army Air Forces, through the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, is responsible for furnishing the latest approved Army Air Forces program information necessary for the computation of requirements, and additional bases, factors, or allowances, originating outside the Office of the Chief of Chemical Warfare, as are required for the computation of requirements, for inclusion in subsection C, part C, section II, which covers air chemical equipment of exclusive interest to air operations purchased by the Chemical Warfare Service for Army Air Forces, Navy Department, or the United Nations. The actual computations are accomplished by the Chief of Chemical Warfare Service.

235.02 Methods of Computation.

a. Bombs. The method involved in the computation of

required production for chemical bombs is the same as that used for ordnance bombs stated in paragraph 234.02.

b. Bulk chemicals. Required production for bulk chemicals is determined by multiplying the number of chemical bombs and spray tanks by the quantity of chemical per bomb or per tank needed for filling purposes and deducting the quantities on hand.

c. Spray tanks. Requirements for spray tanks are prescribed by the Assistant Chief of Air Staff, Operations, Commitments and Requirements in Tab B and transmitted to the Chief of Chemical Warfare Service. Organizational equipment to be used for loading spray tanks is computed by the Chief of Chemical Warfare Service by applying allowances prescribed in allowance tables to units indicated in the troop basis.

d. Total required production. To the total adjusted requirements of the Army Air Forces are added the requirements of the Navy Department and the United Nations. (See par. 221.00.)

236.00 PREPARATION OF SUBSECTION D, PART C, SECTION II, EQUIPMENT, AIR (AIR ENGINEER EQUIPMENT)

236.01 Responsibility. The Commanding General, Army Air Forces, through the Assistant Chief of Air Staff, Materiel, Maintenance and Distribution, is responsible for furnishing the latest approved Army Air Forces program information necessary for the computation of requirements, and additional bases, factors, or allowances, originating outside the Office of the Chief of Engineers, as are required for the computation of requirements, for inclusion in subsection D, part C, section II, which covers air engineer equipment of exclusive interest to air operations purchased by the Chief of Engineers for Army Air Forces. The actual computations are accomplished by the Chief of Engineers.

236.02 Method of Computation. The method involved in the computation of required production for aviation engineer hangars, canvas envelopes and metal sheathing therefor, and air base gasoline distribution and dispensing systems, steel landing mat and rehabilitation equipment therefor is by means of obtaining the special class IV requirements from the oversea air forces concerned as edited and evaluated by the air engineer.

237.00 REVIEW OF REQUIRED PRODUCTION OF ITEMS IN PART C, SECTION II, EQUIPMENT, AIR

237.01 General. After the portions of section II relating to items procured by the Signal Corps, Ordnance Department, Chemical Warfare Service, and Corps of Engineers have been computed by the agency responsible therefor, they will be forwarded by the air communications officer, the air ordnance officer, the air chemical officer, or the air engineer to the Director of Matériel, Army Services Forces, for review from the standpoint of production capabilities. This review will be conducted by the Director, Production Division who, after determining the adjustments which should be made because of production limitations, will conduct a review conference with representatives of the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, the air communications officer, and of the technical service concerned. This conference will decide whether production limitations are acceptable to the Army Air Forces from the operational viewpoint and if not, what steps, such as expansion of facilities or otherwise, can be taken to raise a production goal for the year to the minimum level necessary to meet operational requirements. Major controversial issues only will be referred for final decision to the Director of Matériel, Army Service Forces, and the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, or to the air communications officer in the instance of Signal Corps purchased equipment. After these portions of the program have been approved from production and operational viewpoints, they will be forwarded to the Air Services Division, Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, to be assembled with other portions of section II.

Chapter 4

Administration of Section II, Equipment, Air

240.00 SECTION II OF THE ARMY SUPPLY PROGRAM AS A PROCUREMENT AUTHORITY

240.01 Matériel Purchased by the Army Air Forces. Except for emergencies and development work, procure-

ment of Army Air Forces purchased equipment and supplies will be based on section II of the Army Supply Program for the items contained therein, to the extent prescribed by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution.

a. Emergency procurement. Emergency procurement of a nonrecurring nature for Army Air Forces purchased equipment (other than aircraft and aircraft initial components) will be authorized by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, Headquarters, Army Air Forces, through a directive to the air service command. Such procurement will not be reflected in section II of the Army Supply Program.

b. Procurement for development work. Procurement involved in the development and standardization of new items to be purchased by the Army Air Forces will be authorized by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, Headquarters, Army Air Forces. Such procurements will not be reflected in section II of the Army Supply Program unless the item or items are subsequently standardized, when the quantity or quantities authorized for procurement for development purposes will be added to the computed requirements for the item or items and a revision will be initiated in section II of the Army Supply Program.

240.02 Matériel Purchased by the Army Service Forces. Except for emergencies and for development work, section II of the Army Supply Program is the procurement authority for items contained therein to be purchased by the Army Service Forces, within the limits prescribed by the Director of Matériel, Headquarters, Army Service Forces. A directive issued by the Director of Matériel, pursuant to paragraph 151.00, indicating the annual periods or portions thereof for which procurement of total required production in section I may be initiated, will also be applicable to items included in section II to be procured by the technical services.

a. Emergency procurement. Emergency procurement of a nonrecurring nature may be authorized by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, or by the air communications officer (for air communication equipment only). Such procurement will be

cleared with the Director of Materiel, Army Service Forces, only where it involves—

(1) Nonstandard items not included in section II.

(2) A change of more than 10 percent in the required production of any item listed in section II.

b. Procurement for development work. Procurement required for service and engineering tests involved in the development of items of exclusive interest to the Army Air Forces by the technical services will be as specifically authorized by the Director, Requirements Division, Army Service Forces.

c. Procurement for nonstandard equipment not included in section II. No procurement, other than the minimum required for service and engineering tests, will be effected for nonstandard items of equipment of exclusive interest to the Army Air Forces not presently included in section II of the Army Supply Program without the express approval of the Assistant Chief of Air Staff, Materiel, Maintenance and Distribution, or the air communications officer, when applicable, Army Air Forces and the Director of Matériel, Army Service Forces.

240.03 Approved Changes in Section II as Procurement Authority. Approved changes in section II of the Army Supply Program constitute authority for increasing or decreasing procurement.

241.00 SECTION II OF THE ARMY SUPPLY PROGRAM AS A BASIS FOR PRODUCTION SCHEDULING

241.01 General. Monthly production schedules for items of materiel included in section II of the program will be based on or consistent with the annual procurement objectives stated in section II as total required production for each year. Production schedules for items procured by the Army Service Forces will be prepared by the chiefs of the technical services concerned under the supervision of the Director, Production Division, Headquarters, Army Service Forces. Schedules for selected items procured by the Army Service Forces will be published in the procurement section of the Monthly Progress Report.

242.00 SECTION II OF THE ARMY SUPPLY PROGRAM AS A BASIS FOR FISCAL ESTIMATES

242.01 General. Section II of the Army Supply Pro-

gram will be used whenever practicable for estimating the amount of funds to be requested from Congress and for the justification thereof. The use for fiscal purposes of that portion of section II which relates to items procured by the Army Air Forces will be as prescribed by the Commanding General, Army Air Forces. The portions of section II relating to items procured by the Army Service Forces for the Army Air Forces will be used for fiscal purposes in the same manner as that prescribed for section I of the Army Supply Program in paragraph 152.00.

243.00 SECTION II OF THE ARMY SUPPLY PROGRAM AS A BASIS FOR COMPUTATION OF RAW MATERIALS, FACILITIES, POWER AND LABOR REQUIREMENTS

243.01 Army Air Forces Purchased Equipment. The production schedules prepared in accordance with paragraph 241.01 serve as a basis for computing requirements of raw materials, facilities, power and labor for matériel contained therein to be procured by the Army Air Forces. The raw materials computations will be made by the aircraft scheduling unit, for the Aircraft Resources Control Office as claimant agency. Priority ratings are issued by Headquarters, Air Service Command, within the limits of directives of the Army-Navy Munitions Board. The Commanding General, Army Air Forces will direct through the Air Service Command the items to be given preference in production.

243.02 Items to be Purchased by the Army Service Forces. The items included in section II which are to be purchased by the Army Service Forces will be used as a basis for the computation of raw materials, facilities, power and labor requirements under the supervision of the Director, Production Division. Paragraph 153.00 is applicable to these portions of section II, except that any deficiencies will be reported by the Director, Production Division, to the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution.

244.00 INTERIM CHANGES IN SECTION II OF THE ARMY SUPPLY PROGRAM

244.01 General. Changes authorized in section II, parts A, B, or C of the Army Supply Program between the

dates of each recomputation are known as interim changes. A change in section II is a change in required production as stated in the program. It is imperative that changes in section II be restricted to those instances in which production objectives must be revised. In general, a change in the program will not be submitted unless it amounts to an increase or decrease of at least 10 percent of the total annual required production for the item involved. However, where it is desired that a change be made in production objectives, even though the change is less than 10 percent, a change in the program will be submitted.

244.02 Processing Changes in Required Production of Items Purchased by the Army Air Forces. The air service command will prepare all changes on Army Air Forces purchased material and forward them to the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, for review, approval, and transmittal for publication and distribution. The form for submission of changes will be prescribed by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution.

244.03 Processing Changes in Required Production of Items Purchased by the Army Service Forces. The Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, the air communications officer, or the chief of the technical service concerned may initiate a change in the portions of section II relating to items procured by the Army Service Forces. Responsibilities and authority of the air communications officer apply only to air communication equipment purchased by the Signal Corps.

a. Procedure for changes initiated by the Army Air Forces.

(1) Changes in required production initiated by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution or the air communications officer for all items of equipment to be procured by the Army Service Forces except nonstandard equipment not included in the program, will be submitted formally or informally directly to the chief of the technical service concerned. Required production for nonstandard equipment not presently included in section II will be submitted by Assistant Chief of Air Staff, Matériel, Maintenance and Distribution or the air communications officer to the Director of Matériel, Army Service

Forces, with necessary military characteristics and other information sufficient to form a basis for final action.

(2) A form similar to that attached as Form F will be completed in quintuplicate by the chiefs of the technical services for proposed changes received by them.

(3) The chief of the technical service concerned will review the proposed change to determine whether—

(a) Considerable procurement difficulties are involved.

(b) Any serious interference with established programs will result if the proposed change is approved.

(c) The establishment of new facilities or the curtailment of existing facilities will be necessary if the proposed change is approved.

(d) Approval of the change will necessitate important "cutbacks" on existing contracts.

(e) The proposed change cannot be met within the time period specified.

(4) If any of the foregoing conditions will affirmatively result from the proposed change, the matter will be referred to the Director, Production Division, Army Service Forces, who will make appropriate recommendations to the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, or to the air communications officer. If none of the foregoing conditions will affirmatively result from the proposed change, the matter will be returned by the chief of the technical service direct to the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, or the air communications officer with a statement to that effect.

(5) After further consideration, the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, or the air communications officer will forward to the Director of Matériel, Army Service Forces, approved changes in major items of more than 10 percent of annual required production for that item. (The Director, Production Division, will review all such changes in conjunction with Director, Requirements Division, Army Service Forces, and prepare appropriate staff action for the Director of Matériel.) Final action on other changes will be taken by Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, or the air communications officer.

(6) A copy of the final action taken on all proposed changes will be transmitted by Assistant Chief of Air Staff,

Matériel, Maintenance and Distribution, or the air communications officer to the chief of the technical service concerned.

b. Procedure for changes initiated by the technical services. Changes initiated by the technical services in section II will be forwarded direct to the Assistant Chief, Air Staff, Matériel, Maintenance and Distribution, or the air communications officer where no production difficulties are involved. Changes involving production difficulties will be forwarded through the Director, Production Division to the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution. The Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, will process such proposed changes in accordance with paragraphs 244.03a(5) and 244.03a(6) above.

244.04 Effect of a Change in Required Production. A change in required production as stated in section II of the Army Supply Program is effective as of the date that it is approved. When approved, the change constitutes authority to increase or decrease procurement and production schedules to conform to the revised figures.

244.05 Publication of Summary of Changes. A summary of all approved interim changes in section II of the Army Supply Program will be prepared by Assistant Chief of Air Staff, Matériel, Maintenance and Distribution, and forwarded in sufficient time to reach the Director, Requirements Division, on the 22d of each month. The Director, Requirements Division, Army Service Forces, will publish the summary and have it distributed to the holders of section II.

245.00 PUBLICATION AND DISTRIBUTION OF SECTION II OF THE ARMY SUPPLY PROGRAM

245.01 Responsibility. All portions of section II, parts A, B, and C of the Army Supply Program are assembled by the Assistant Chief of Air Staff, Matériel, Maintenance and Distribution. After approval, a complete original type-written copy of section II is transmitted to the Director, Requirements Division, who forwards same to The Adjutant General for reproduction and distribution.

245.02 Publication Dates. Section II, parts A, B, and C of the Army Supply Program will be recomputed semi-annually and published on or about 1 February and 1 August of each year.

245.03 System of Distribution. Section II is distributed in the same manner as that provided for section I in paragraph 155.04.

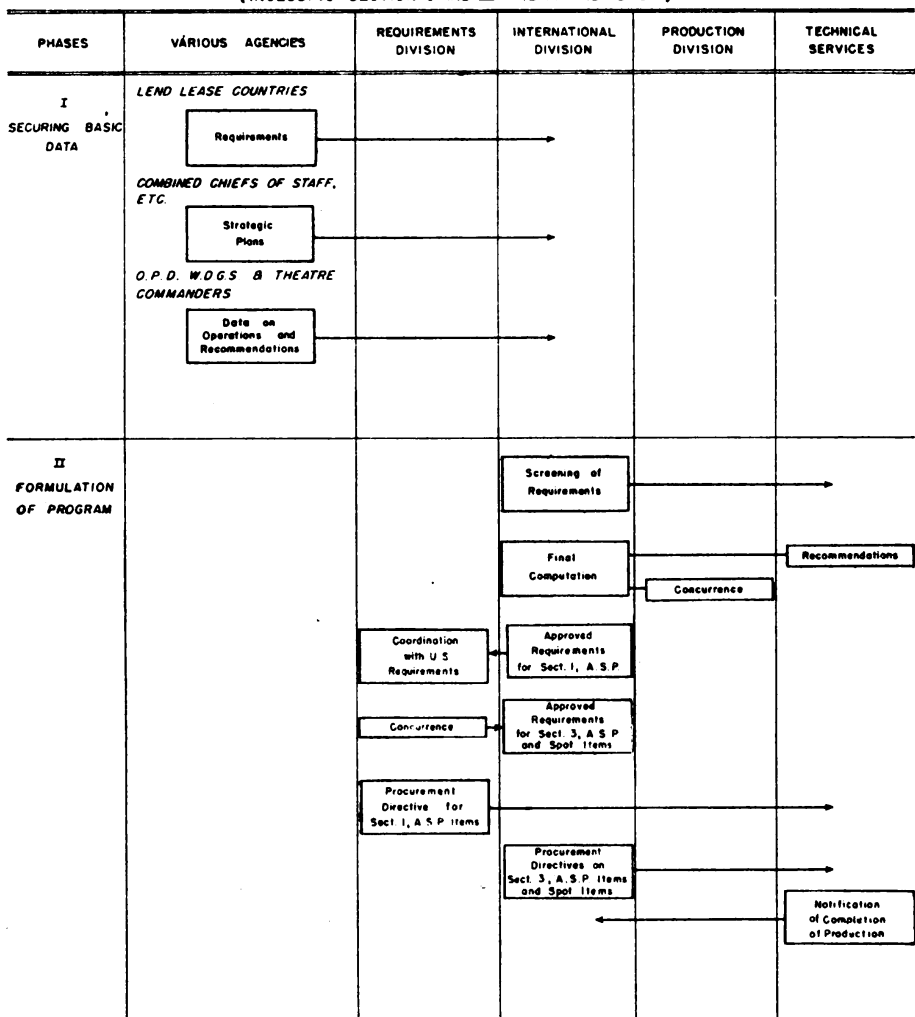
245.04 Distribution List. Distribution list for section II is prepared in the same manner as that provided for section I in paragraph 155.05.

BOOK III

**THE ARMY SUPPLY
PROGRAM—SECTION III,
MISCELLANEOUS SUPPLIES,
INTERNATIONAL AID**

300.00

**PROCESSING OF LEND LEASE REQUIREMENTS AGAINST U.S. PRODUCTION FOR GROUND ITEMS
(INCLUDING SECTION I AND III A.S.P. AND SPOT)**



BOOK III

THE ARMY SUPPLY PROGRAM—SECTION III, MISCELLANEOUS SUPPLIES, INTERNATIONAL AID

Chapter 1

Method of Compilation

310.00 GENERAL

310.01 Types of Requirements Included. A requirement included in section III is the amount of a particular item, or designated group of items, generally peculiar to a single lend-lease nation, which is needed by that nation for a specified purpose, and which is susceptible of being programmed. Such requirements are broken down into the two following classes:

a. Requirements authorized for procurement prior to the publication date of section III, Army Supply Program, but on which deliveries are to be accomplished during the period covered by that program.

b. Programmed requirements which are not authorized for procurement but are included for planning purposes only. Such requirements are authorized for procurement upon submission by the lend-lease nation concerned of covering requisitions containing satisfactory specifications, provided adequate facilities and materials are available when such requisitions are submitted.

310.02 Types of Items. The types of items included in section III consist primarily of nonstandard equipment, maintenance, spare parts, manufacturing components, and miscellaneous expendable supplies. In general, section III covers all items for which long-term International Aid requirements exist, and which are not included in sections I and II.

310.03 Period Covered. Section III sets forth all such International Aid requirements for the current calendar year and the succeeding calendar year.

311.00 PROCEDURE

311.01 Purpose. The purpose of paragraph 311.00 and related subparagraphs is to state the general procedure involved in the computation of the principal elements of planned production appearing in section III, Army Supply Program.

311.02 Basic Purpose. The basic purpose of section III is to state planned production of International Aid requirements during specified annual periods.

311.03 Sources of Requirements. Prior to the time of each computation of section III, Army Supply Program, the Director, International Division, Army Service Forces, requests accredited lend-lease nations to submit long-range programs of total requirements for the succeeding calendar year. These programs are to be submitted 60 days before the scheduled date for publication of each revision of section III. Aggregate requirements accepted for publication will include all items under procurement and undelivered as of the first day of the current calendar year, except for spot requirements (par. 324.00) and such revisions as may be advisable from the operational point of view and feasible from the contract cancelation point of view plus new accepted requirements for the current and succeeding calendar year.

311.04 Analysis and Recommendation. The Requirements and Assignments Branch, International Division, Army Service Forces, forwards long-range programs as received from the accredited lend-lease nations to the chiefs of the technical services for preliminary investigation and analysis, following up such transmittals promptly by forwarding consolidated International Aid requirements by technical services for recommendations based upon the—

- a. Availability of adequate production facilities.
- b. Suitability of submitted specifications in the light of possible measures of conservation, desirable substitutions, or standardization.
- c. Effect upon other sections of the Army Supply Program.

311.05 Review Conferences. Upon receipt of analyses and recommendations from the technical services, the Requirements and Assignments Branch, International Division, Army Service Forces, conducts review conferences with representatives of the appropriate technical services and the following staff divisions:

- a. Operations Division, War Department General Staff.
- b. Requirements Division, Army Service Forces.
- c. Production Division, Army Service Forces.

311.06 Determination of Program. The proposed program is approved or disapproved in whole or in part by the Director, International Division, Army Service Forces, within limitations of dollar value and controlled materials imposed by the Director of Matériel, as a result of—

a. Decisions in conference based upon recommendations of the technical services, military justification of the requirements, effect upon other sections of the Army Supply Program, and any other pertinent factors.

b. Consultations with accredited representatives of the lend-lease nations concerned.

Concurrence on the final program is obtained from the Director of the Requirements Division, Army Service Forces.

312.00 SPECIFIC INSTRUCTIONS

312.01 Responsibility. The Director, International Division, Army Service Forces, is responsible for the formulation of a basic directive containing instructions for the preparation of section III of the Army Supply Program. The chiefs of the international branches of the technical services are responsible for recommendations concerning their respective portions of section III in accordance with the basic directive.

312.02 Purpose. It is the purpose of paragraph 312.00 and related subparagraphs to state the recurring standard instructions which are applicable to each computation of section III of the Army Supply Program. These instructions relate only to standard phases of the operations involved in each revision of section III and will be supplemented by the basic directive of the Director, International Division, Army Service Forces. The basic directive will specify the period covered by the computation, the manner in which

requirements are to be submitted, and similar matters which are peculiar to each revision. Except as modified by the directive issued by the Director, International Division, Army Service Forces, at the time of each computation, the following instructions will be observed in preparing each revision of section III.

312.03 Items to be Included. Section III of the Army Supply Program will include required annual production of all International Aid requirements not included in other sections of the Army Supply Program which are under procurement and undelivered as of the first day of the current calendar year except for spot requirements (par. 324.00) and such revisions as may be advisable from the operational point of view and feasible from the contract cancelation point of view, plus new accepted requirements for the current and succeeding calendar year.

312.04 Nomenclature. The nomenclature will conform with that used in the latest revision of section III, Army Supply Program.

312.05 Statement of Requirements for Items which are Component Parts of Sets. Certain complete end items are component parts of sets and in addition are issued separately. Separate requirements of these items will not include requirements for them as component parts of sets.

312.06 Arrangement of Items. It is desired that the required production for any one item by any one technical service be stated in only one place in that part of the program pertaining to that service.

312.07 Unit of Measure. The unit used for quantitative estimates should be that commonly used commercially, such as, each, pair, pounds, tons, square feet, gallons, etc.

312.08 Unit Cost. Unit cost will represent the latest and best information available thereon. In general, it will be based on the latest contract price.

312.09 Authority for Inclusion of Requirements. Authority for the inclusion of requirements in section III will be indicated individually. Quantities under procurement and undelivered as of the first day of the calendar year will be indicated by the lend-lease nation's requisition number as such authority. Additional requirements for the forth-

coming calendar year and for the succeeding calendar year will, in lieu of a requisition number, be indicated by the word "program" preceded by the symbol designating the country involved, for example, "R-Program."

312.10 Preparation of Index.

a. The Requirements and Assignments Branch, International Division, Army Service Forces, will prepare an index of the requirements included in section III, Army Supply Program.

b. The Requirements and Assignments Branch, International Division, Army Service Forces, will number consecutively the pages of section III, beginning with page 1. The numbers will be placed in the lower right hand corner of the odd-numbered pages and the lower left hand corner of the even-numbered pages.

c. The index will be prepared in substantially the same form as that used in the latest revision of section III.

312.11 Undelivered Quantities. The undelivered quantity of an article authorized for procurement on a lend-lease nation's requisition will be that quantity not inspected and not accepted as of the first day of the current calendar year.

312.12 Preparation of Dollar Value Summary. The Requirements and Assignments Branch, International Division, Army Service Forces, will prepare a summary of the dollar value of planned production for each technical service and for the total of all the technical services as set forth in section III.

Chapter 2

Administration of Section III,

Army Supply Program

320.00 SECTION III AS A PROCUREMENT AUTHORITY.

320.01 General. The inclusion of a requirement for an item in section III does not, of itself, constitute authority to procure the item in the quantity stated therein. Procurement will be authorized in each instance by the Director, International Division. Items which have been authorized for procurement are indicated in the program by a requisition number.

321.00 SECTION III AS A BASIS FOR FISCAL ESTIMATES AND FOR COMPUTATION OF RAW MATERIALS, FACILITIES, POWER AND LABOR REQUIREMENTS

321.01 General. Section III of the Army Supply Program will serve the Staff Divisions, Army Service Forces, in the same manner as outlined in paragraphs 152.00 and 153.00 for section I of the Army Supply Program as a basis for estimating the amounts of funds to be requested from Congress and for justifying such estimates; and for comprehensive analyses of requirements in terms of raw materials, facilities, power, fuel, and labor for items approved for procurement.

322.00 CHANGES IN SECTION III, ARMY SUPPLY PROGRAM

322.01 General. Changes in section III of the Army Supply Program will be held to a minimum, limited to cases justified by altered operational requirements, and published only at the time of the semiannual revisions. Proposed changes will be acceptable only to the extent permitted by the limitations imposed by production and controlled material scheduling, and only then when submitted sufficiently far in advance of the time of the desired change to allow for investigation, decision, and implementation.

323.00 PUBLICATION AND DISTRIBUTION OF SECTION III, ARMY SUPPLY PROGRAM

323.01 Responsibility. The Director, International Division, Army Service Forces, will forward an original typewritten copy of the approved section III to the Director, Requirements Division, Army Service Forces, who will transmit this copy to The Adjutant General for reproduction and distribution.

323.02 Publication Dates. Section III of the Army Supply Program will be recomputed semiannually and published on 1 February and 1 August of each year.

323.03 Form in which published. Section III of the Army Supply Program is issued only as a complete volume.

323.04 System of Distribution. The system of distribution for section III of the Army Supply Program will be the same as that provided for section I of the Army Supply Program. (See par. 155.04).

323.05 Distribution List. Section III of the Army Supply Program is distributed in accordance with a distribution list prepared in the same manner as provided for section I of the Army Supply Program. Requests for copies of section III should be routed in the same manner as requests for section I. (See par. 155.05.)

324.00 SPOT REQUIREMENTS

324.01 General. Publication of section III of the Army Supply Program will not be construed to prevent the placing of requisitions by accredited lend-lease nations for spot requirements, which are defined as unforeseen, unanticipated, operationally-justified requirements beyond or exclusive of those published in the Army Supply Program. These requirements are analyzed and reviewed under a procedure similar to that outlined for programmed requirements (pars. 311.04 through 311.06). Upon approval, they are immediately authorized for procurement. The required CMP materials are charged to International Aid spot allocations provided for that purpose. Such requirements are not incorporated in the Army Supply Program.

BOOK IV

**THE ARMY SUPPLY
PROGRAM—SECTION IV,
CONSTRUCTION**

400.00

PHASES	GROUND FORCES	WAR DEPT SPONSORED DPC & OTHER
I SECURING & DISSEMINATION OF BASIC DATA	Co of Of → Housing	→ Facilities
II FORMULATION OF THE PROGRAM	→ ← Ti	→ →
III ADMINISTRATION OF THE PROGRAM	→	

THE PREPARATION
OF
THE ARMKSUSUPPLY PROG

OFFICE CHIEF FOR TECHNICAL
ENGINEERS, HON. FIELD O



BOOK IV

THE ARMY SUPPLY PROGRAM— SECTION IV, CONSTRUCTION

Chapter 1

Preparation of Section IV of the Army Supply Program

410.00 GENERAL

410.01 Scope of Section IV of the Army Supply Program. Section IV is a compilation of all incompletd War Department construction projects necessary to carry out present and future tactical and supply plans of the U. S. Army within the continental limits of the United States and in areas located outside continental limits of the United States for which the Chief of Engineers has the direct responsibility of construction. In addition it shows estimated maintenance costs for all existing completed War Department installations and the total value of completed jobs.

410.02 Responsibility. The Office of the Chief of Engineers is responsible for the preparation of section IV, Army Supply Program, under the supervision of the Director, Requirements Division, Army Service Forces.

410.03 Procedure by which Construction Projects are Included in Section IV.

a. Command construction exclusive of that for the Army Air Forces. The requests for major construction projects—except manufacturing facilities and construction for the Army Air Forces—from the Commanding General, Army Ground Forces, the directors of staff divisions, and the chiefs of technical and administrative services of the Army Service Forces are forwarded through Chief of En-

gineers to the Construction Branch, Requirements Division, Headquarters, Army Service Forces, for review and transmittal of approved requests to the Chief of Engineers for inclusion in the program. Requests for minor construction projects originating in the field are transmitted by the Commanding General, Army Ground Forces, the directors of staff divisions, and the chiefs of technical services, Army Service Forces, direct to the Chief of Engineers for necessary action. The Chief of Engineers approves and includes those projects which comply with established War Department construction policy.

b. Industrial facilities exclusive of those for the Army Air Forces. Requests for construction of industrial facilities are cleared with the Director, Production Division, Army Service Forces, and are transmitted by the Director, Requirements Division, to the Chief of Engineers for inclusion in the program.

c. Construction for the Army Air Forces. Requests for construction of Army Air Forces housing and training facilities are forwarded by the Commanding General, Army Air Forces, direct to the Chief of Engineers. Requests for construction of manufacturing facilities for the Army Air Forces are forwarded to the Under Secretary of War for approval and then to the Chief of Engineers.

d. Assignments from the War Production Board. The War Production Board assigns certain Defense Plant Corporation and privately financed projects to the War Department so that the War Department may act as claimant agency for such projects under the Controlled Materials Plan. These projects are forwarded by the Director, Production Division, to the Chief of Engineers for inclusion in the program.

411.00 SPECIFIC INSTRUCTIONS FOR PREPARATION OF SECTION IV OF THE ARMY SUPPLY PROGRAM

411.01 Projects to be Included. The Chief of Engineers is charged with the preparation of section IV of the Army Supply Program and will compile therein all construction projects incomplete and proposed, assigned to the War Department.

a. Army Air Forces. All facilities coming under the jurisdiction of the Army Air Forces (except industrial facilities) and all Civil Aeronautics Authority projects constructed by the Chief of Engineers.

b. Army ground troops. All facilities at posts, camps, and stations; all hospitals; internment camps; storage facilities for the Women's Army Corps; passive protection projects; and seacoast defense.

c. Industrial facilities. New plant facilities and expansions of existing plant facilities financed and sponsored by the War Department for the Ordnance Department, Army Air Forces, Chemical Warfare Service, and any other using agency of the War Department.

d. Defense plant corporation projects sponsored or initiated by War Department.

e. Civil works programs. River, harbor, and flood control activities which involve the use of construction materials, including repair and maintenance.

f. Other Construction Projects. All other construction projects financed by the War Department and under the supervision of technical services other than the Corps of Engineers.

(1) Army-owned, agent-operated plants.

(2) Construction and equipment for private plants.

g. Defense Plant Corporation and privately financed projects, which have been assigned to the War Department by the War Production Board for the purpose of the Controlled Materials Plan.

h. Northwest Service Command.

411.02 Policies to be Observed.

a. Tactical and supply needs control. The tactical and supply needs of the U. S. Army, rather than any fiscal appropriation or monetary valuation, will control the compilation of section IV.

b. Basis for controlled materials. Except for oversea construction requirements included in section I, section IV of the Army Supply Program will be used as the basis for the determination of quantities of basic materials required for construction under the Controlled Materials Plan.

411.03 Arrangement of Section IV. Section IV will be arranged in four parts as follows:

Part A. Proposed work.

Part B. Jobs under construction.

Part C. Machinery and equipment.

Part D. Maintenance and repairs.

411.04 Scope of Part A. Part A will consist of pro-

posed projects. Proposed projects may be defined as those for which funds have been appropriated but for which no directives have been issued, and other currently contemplated projects which will be included in later project estimates. Such proposed work will be reported in part A until directives to initiate constructions have been issued to the field offices, or the proposed project has been abandoned by the using service. The estimated construction or rehabilitation cost and the estimated cost of machinery and equipment will be shown.

411.05 Scope of Part B. Part B represents projects for which directives have been issued to the appropriate construction agencies. The construction or rehabilitation cost will be stated. Part B will include—

- a. War Department financed, Corps of Engineer projects.
- b. War Department financed, other than Corps of Engineer projects.
- c. Defense Plant Corporation projects which have been assigned to the War Department by the War Production Board for the purposes of the Controlled Materials Plan.
- d. Privately financed projects which have been assigned to the War Department by the War Production Board for the purposes of the Controlled Materials Plan.
- e. Privately financed projects sponsored by the War Department for which the War Department does not act as a claimant agency (partial list based on available information).

411.06 Scope of Part C. Part C will state the cost of all manufacturing machinery and equipment for the facilities included in part B.

411.07 Scope of Part D. Part D will state the estimated cost of maintenance, repairs, and operating supplies for all posts, camps, and stations as prescribed by AR 100-80 and the maintenance costs for War Department owned industrial facilities. These costs will be indicated by the fiscal year involved.

412.00 PUBLICATION AND DISTRIBUTION OF SECTION IV OF THE ARMY SUPPLY PROGRAM

412.01 Procedure. Section IV of the Army Supply Program is assembled and printed by the Chief of Engi-

neers and forwarded through the Director, Requirements Division, to The Adjutant General for distribution.

412.02 Publication Dates. Section IV of the Army Supply Program is published quarterly as of 30 April, 31 July, 31 October, and 31 January of each year.

412.03 Form in which Published. Section IV is published only as a complete volume.

412.04 System of Distribution. The system of distribution for section IV is the same as that for section I which is stated in paragraph 155.04.

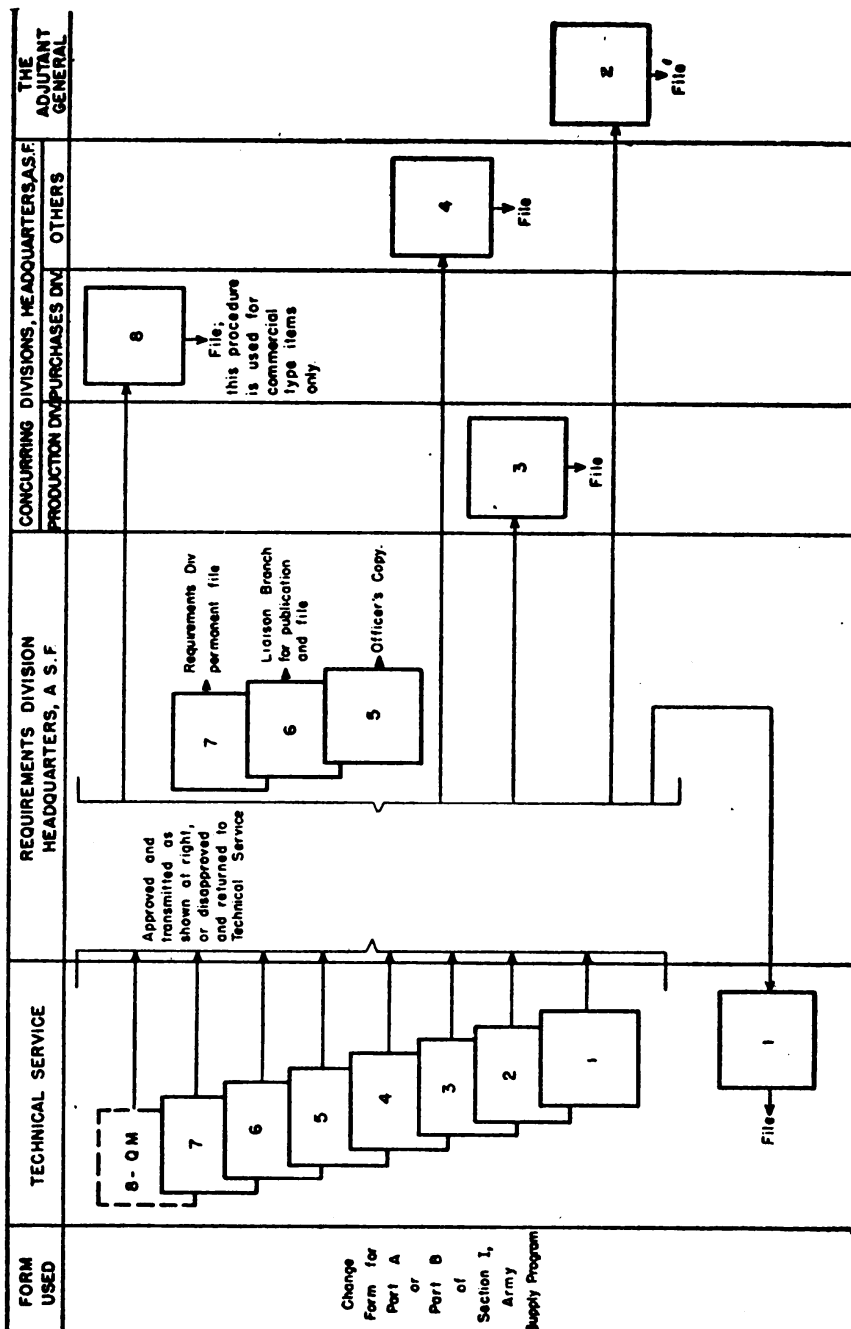
412.05 Distribution List. The distribution list for section IV is prepared in the same manner as that provided for section I in paragraph 155.05.

412.06 Disposition of Obsolete Copies. The provisions of paragraph 155.06 are applicable.

APPENDIX

CHANGES IN SECTION I OF THE ARMY SUPPLY PROGRAM

FLOW OF BASIC FORMS



FORM A

Assigned by Director
Requirements Division

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CHANGES IN REQUIRED PRODUCTION, THE ARMY SUPPLY PROGRAM, SECTION I - EQUIPMENT, GROUND, PART A (When approved, this constitutes a change in the Army Supply Program)

Date:		Charge No.:	Q-12-1A	Service:		Quartermaster			Remarks
Page Item No.	Item	Unit of Meas.		Required Production for the Calendar Year					
		Unit Cost On Hand 1-1-43	For	1-1-43 to 12-31-43		1-1-44 to 12-31-44		1-1-45 to 12-31-45	
				(2)	(3)	(4)	(5)	(6)	
20A 17	Change from:								
	Bag, barrack	Unit 1,000 Cost \$1,240 O.H. 4,345	Army Navy I.A. Total	7,421 0 21 7,442	8,391 0 10 8,401	9,085 0 10 9,095			
	To:								
	Bag, barrack	Unit 1,000 Cost \$1,240 O.H. 4,345	Army Navy I.A. Total	9,090 0 21 9,111	10,450 0 10 10,460	11,844 0 10 11,854			
	Change from:	Unit Cost O.H.	Army Navy I.A. Total						
	To:								
	Change from:	Unit Cost O.H.	Army Navy I.A. Total						
	To:								

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(DATA IS ASSUMED)

All data in each of these columns obtained from published Program or latest approved change in Program

Data in these columns will indicate only changes to be made if no change is made in a line of the Program, previously published or approved data will be used

FORM B

Assigned By Director
Requirements Division

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CHANGES IN REQUIRED PRODUCTION, THE ARMY SUPPLY PROGRAM, SECTION 1 - EQUIPMENT, GROUND, PART B
(When approved, this constitutes a change in the Army Supply Program)

Date:		Change No. 1		C-4-1B		Services: Chemical Warfare Service			
Page No. Item No.	Class and Group or Item Federal Standard Stock Catalog	Unit Cost	Unit Cost	Required Production for Period 1-1-43 to 12-31-43		Required Production for Period 1-1-44 to 12-31-44		Required Production for Period 1-1-45 to 12-31-45	
				Quantity	Cost	Quantity	Cost	Quantity	Cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
88 17	Change from: Agent, Decontaminating, Simulated	Ton	\$48	3,144		4,725		5,810	
	To: Agent, Decontaminating, Simulated	Ton	\$43	2,331		4,227		5,247	
	Change from:								
	To:								
	Change from:								
	To:								

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(DATA IS ASSUMED)

All data in each of these columns
obtained from published Program or
latest approved change in Program.

Data in these columns will indicate
any changes to be made. If no change
is made in a line of the Program,
previously published or approved
data will be used.

FORM D

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CHANGES IN REQUIREMENTS FOR ITEMS APPEARING IN SECTION I, PART A, OF THE ARMY SUPPLY PROGRAM

Service

(Note: This does not constitute an authorized change to required production stated in Section I of the Army Supply Program).

Page No.	Item No.	Item	Year	Change (Increase +, Decrease -)		
				Army	Navy	Int'l Aid
144	115	Telephone EE-8	1943	0	0	0
			1944	+ 5,700	0	0
			1945	- 2,000	0	0
23A	203	Wire, W-130	1943	+ 2,500	0	0
			1944	+ 1,000	0	0
			1945	0	0	0
			1943			
			1944			
			1945			
			1943			
			1944			
			1945			

Obtained from Published Program

Obtained from Data in Office of Chief of Technical Service, e.g. Approved Change in Table of Equipment

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(ALL REQUIREMENTS SHOWN ARE ASSUMED)

Quantity stat
of the change.

Monthly Prod
for amount of

Refers to Cl

Unit weights are
records kept by C
Service.

Quarter currently under Allocations, i.e.
Quarter for which allotments of Materials
have already been received.

Quarter subsequent to that currently
under allocation.

Product of Unit Weight
X sum of monthly changes
for "A" Quarter.

Product of Unit Weight
X sum of monthly changes
for "B" Quarter.

Indicate basic sourc
Measures

FORM E

MEMORANDUM FOR THE DIRECTOR, REQUIREMENTS DIVISION, HQS, A.S.P.:

Subject: Request for Copies of the Army Supply Program.

1. The International Aid Division
(Service, Staff Division, etc.)

requests that copies of future issues of the subject program be furnished as follows:

Number of Copies of
Each Issue Requested

SECTION I - Equipment, Ground

Complete Copy.....	8
Ordnance Extract.....	9
Signal Corps Extract.....	9
Engineers Extract.....	5
Chemical Warfare Service Extract.....	2
Medical Extract.....	2
Quartermaster Extract.....	7
Transportation Corps Extract.....	3
Army Air Forces Extract.....	4

SECTION II - Equipment, Air..... 5

SECTION III - Miscellaneous Supplies,
International Aid..... 7

SECTION IV - Construction..... 5

2. These copies are to be sent for distribution to:

OFFICE: International Aid Division

BRANCH: Requirements

ROOM & BLDG: 4-D-184 Postroom

TELEPHONE NO.: Ext. 5613

SIGNED: S. M. Johnson 1st Lt. 10 September 43
(Name) (Rank) (Date)

FORM F

CHANGES IN REQUIRED PRODUCTION, THE ARMY SUPPLY PROGRAM, SECTION II - EQUIPMENT, AIR, PART C
(When approved, this constitutes a change in the Army Supply Program)

Date: 15 October 1943

Services: Ordnance

Item No.	Item	Unit of Meas. On Hand 1-1-43	Required Production for the Calendar Year				Remarks
			Per	1943	1944	1945	
6 15	(3)	(2)	(3)	(4)	(5)	(6)	(7)
	Change from Bomb, G, 250 lb., AN - 157	Unit Each Cost \$50 O.N. 75,000	Army Navy I.A. Total	250,000 0 0 250,000	150,000 0 0 150,000	75,000 0 0 75,000	
	Yes Bomb, G, 250 lb., AN - 157	Unit Each Cost \$50 O.N. 75,000	Army Navy I.A. Total	250,000 0 0 250,000	175,000 0 0 175,000	100,000 0 0 100,000	
	Change from:	Unit Cost O.N.	Army Navy I.A. Total				
	Yes	Unit Cost O.N.	Army Navy I.A. Total				
	Change from:	Unit Cost O.N.	Army Navy I.A. Total				
	Yes	Unit Cost O.N.	Army Navy I.A. Total				

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(DATA IS ASSUMED)

All data in each of these columns obtained from published Program or latest approved change in Program

Date in these columns will indicate any changes to be made. If no change is made in a line of the Program, previously published or approved date will be used.

FORM 1

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COMPUTATION OF INITIAL TABLE OF EQUIPMENT OR TABLE OF BASIC ALLOWANCES REQUIREMENTS,
ARMY SUPPLY PROGRAM

A. No. of 100% Units, Period 1		B. No. of 50% Units, Period 1		C. No. of Units, Period 2		D. No. of Units, Period 3		Date of Computation: 1 October 1943	
17		8		36		41			
T/O and E. No. 5-87		Name of Unit		Business Light Ponton Company		Date of T/O and E: 21 August 1943		Date of Computation: 1 October 1943	
Item Description	Item Code No.	Item Quantity per Unit	Period 1				Total Initial T/O and E T/O or T/BA Requirement, 100% Items (Col. 4 & 5)	Total Initial T/O and E T/O or T/BA Requirement, 50% Items (Col. 4 & 5)	Total Initial T/O and E T/O or T/BA Requirement, Period 3 (D x Col. 3)
			Initial Quantity for 100% Units (A x Col. 3)	Initial Quantity for 50% Units (B x Col. 3)	Initial T/O and E T/O or T/BA Requirement, 100% Items (Col. 4 & 5)	Initial T/O and E T/O or T/BA Requirement, 50% Items (Col. 4 & 5)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Gasm. submachine, Cal..45, M3		7	119	56	175		252	287	
Watch, wrist, 7 jewel		9	153	72		189	324	369	
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From Troop Base

Computing Service

(ALL TROOP BASIS DATA IS ASSUMED)

Table of Organization & Equipment No.5-87

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REMARKS:

From Approved List of
Replacement Factors

From Basic Directive for
Computation of Army Supply
Program issued by Director
Requirements Division.

From Records kept by
Chief of Service.

From Form 1 or Computing
Machine Run

		Period 1	Period 2	Period 3
A.	4.25 T/O Repl. Factor	B. 5 Months T/O Repl.	C. 6 Months T/O Repl.	D. 8 Months T/O Repl.
E.	2.15 Repl. Factor	F. 7 Months T/O Repl.	G. 8 Months T/O Repl.	H. 10 Months T/O Repl.
ON HAND (includes all Deductions for Period 1)		245		

Computation

Requirement	1	2	3
1. Total T/O and E or T/M Requirements	317	387	447
2. Schools, Replacement Trng. Centers	75	81	84
3. Total Initial for Periods 1,2,3	K 392	L 468	M 531
4. Initial for Instruments, Periods 2,3		72	87
		L-K	M-L
5. T/O Replacement, $A \times B \times K$	82		
6. T/I Replacement, $E \times F \times K$	28		
7. Special Projects	14		
8. Other	-		
9. Gross Requirement Lines 3 + 5 + 6 + 7 + 8	516		
10. On Hand	245		
11. Required Production, Lines 9 - 10	271		
12. T/O Replacement, $A \times C \times L$		117	
13. T/I Replacement, $E \times G \times L$		78	
14. Special Projects		17	
15. Other		-	
16. Required Production Lines 4 + 12 + 13 + 14 + 15		212	
17. T/O Replacement, $A \times D \times M$			185
18. T/I Replacement, $E \times H \times M$			116
19. Special Projects			19
20. Other			-
21. Required Production Lines 4 + 17 + 18 + 19 + 20			407
Item Description	Truck, Artillery Repair	ASP No.	
Item Code No.	32,141 - A	Unit Cost	

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(ALL REQUIREMENTS AND STOCK ON HAND ARE ASSUMED)

FORM 3

CONFIDENTIAL

AMMUNITION

From Approved List of
Days of Supply

Directive for Computation
of Army Supply Program.

From Form II or Computing
Machine Run

Training Requirements from
Director, Requirements Division.

From Records kept by
Chief of Service

Line No.	Item	Type of Ammunition		
		High Explosive	Armor Piercing	H.E. - A.T. OTHER
1.	Days of Supply, Rounds per Day per Wpn	16	-	4
2.	Days of Supply Required for Period 1	160	-	160
3.	Rounds per Weapon Required for Period 1 (Line 1 x 2)	2,400 (A)	- (B)	600 (C)
4.	Days of Supply Required for Period 2	180	-	180
5.	Rounds per Weapon Required for Period 2 (Line 1 x 4)	2,880 (D)	- (E)	720 (F)
6.	Days of Supply Required for Period 3	240	-	240
7.	Rounds per Weapon Required for Period 3 (Line 1 x 6)	3,840 (G)	- (H)	960 (I)
		Period Requirements		
		1	2	3
8.	<u>Weapons</u> Total T/O and H's <u>Required</u> (Line 1; Form 2)	1,488	1,981	2,121
9.	Special Projects	243	310	385
10.	Total Weapons (Line 8 + 9)	1,731 (J)	2,291 (K)	2,506 (L)
11.	<u>Ammunition, Rounds</u> High Explosive	4,178,400 (A x L)	5,998,080 (D x H)	9,630,720 (C x I)
12.	Added Requirements-Training, AC, etc.	445,700	723,000	1,018,000
13.	Gross High Explosive (Line 11 + 12)	4,624,100	7,321,080	10,648,720
14.	On Hand	339,000		
15.	Net High Explosive (Line 13 - 14)	4,285,100		
16.	Armor Piercing	- (J x L)	- (K x H)	- (L x I)
17.	Added Requirements-Training, AC, etc.	-	-	-
18.	Gross Armor Piercing (Line 16 + 17)	-	-	-
19.	On Hand	-		
20.	Net Armor Piercing (Line 18 - 19)	-	-	-
21.	Other <u>High Explosive - Antitank</u>	1,044,600 (C x L)	1,648,520 (F x H)	2,407,680 (E x I)
22.	Added Requirements-Training, AC, etc.	126,100	182,000	256,300
23.	Gross Other <u>H.E. - A.T.</u> (Line 21 + 22)	1,170,700	1,830,520	2,664,080
24.	On Hand	178,000		
25.	Net Other <u>H.E. - A.T.</u> (Line 23 - 24)	992,700		
Weapon Separator, 10mm, 13				

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ALL REQUIREMENTS AND STOCK ON HAND ARE ASSUMED

U. S. GOVERNMENT PRINTING OFFICE : 1944—O

